

# Specifications Guide

## Global Platts Forward Curve Products

Latest update: September 2020

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## DEFINITIONS OF THE TRADING LOCATIONS FOR WHICH PLATTS PUBLISHES DAILY INDEXES OR ASSESSMENTS

The following specifications guide contains the primary specifications and methodologies for the Platts Forward Curve financially-settled oil derivatives assessments around the world. All the assessments listed here employ Platts Assessments Methodology, as published at [https://www.spglobal.com/platts/plattscontent/\\_assets/\\_files/en/our-methodology/methodology-specifications/platts-assessments-methodology-guide.pdf](https://www.spglobal.com/platts/plattscontent/_assets/_files/en/our-methodology/methodology-specifications/platts-assessments-methodology-guide.pdf).

These guides are designed to give Platts subscribers as much information as possible about a wide range of methodology and specification questions.

This guide is current at the time of publication. Platts may issue further updates and enhancements to this guide and will announce these to subscribers through its usual publications of record. Such updates will be included in the next version of this guide. Platts editorial staff and managers are available to provide guidance when assessment issues require clarification.

A financially-settled derivatives contract is one in which a buyer and seller agree to a strike price in relation to a defined underlying benchmark for a defined period of time. The counterparties ultimately financially settle the difference in value between the strike price and the average value of the underlying benchmark, once that average value is known. Financially-settled derivatives do not typically result in the physical delivery of a commodity. They typically result in the payment of a financial consideration reflecting the difference in value between the strike price and the average of the underlying reference price – commonly the average price published for a physical market price benchmark, or sometimes another key indicator, like a futures contract.

For example, a buyer and seller might agree to trade an August jet fuel derivative at \$100/barrel (the strike price) for a volume of 50,000 barrels, using a Platts assessment for jet fuel in the physical markets as the underlying instrument for settlement of value. On September 1, when all August assessments have been published, if the average of the Platts jet fuel assessments published in August was \$101/b, the seller would pay the buyer \$1/b for 50,000 barrels, or \$50,000. If the average of the underlying Platts assessments in August was \$99/b, the buyer would likewise pay the seller \$1/b for 50,000 barrels, or \$50,000.

Platts derivative assessments reflect the value of both uncleared and cleared instruments.

**Weeks:** Platts assesses the value of Brent weekly Contract for Difference derivatives (CFDs). Such derivatives roll on the Thursday of each week.

**Balance-Month:** A balance-month derivative is financially settled using the relevant physical market assessment or futures market values available on every remaining publishing day in the month, including the day of publication itself. Balance-month derivatives are assessed in some markets, and these assessments are available up to and including the 15th of each month, after which point liquidity typically falls. After the 15th of each month, Platts may continue to publish balance-month bids and offers during the Market on Close assessment process, but the information might not be used for assessment purposes due to lower underlying liquidity.

**Calendar Month:** A calendar month derivative is financially settled using the relevant physical market assessment or futures market values available on every publishing day in the

month. Monthly derivatives roll on the first publishing day of each month.

**Calendar Quarter:** A calendar quarter derivative is financially settled using the relevant physical market assessment or futures market values available on every publishing day in the quarter. A Q3 derivative refers to July, August and September, and so on. Calendar quarters roll four times a year, on the first publishing days of January, April, July and October.

**Calendar Year:** A calendar year derivative is financially settled using the relevant physical market assessment or futures market values available on every publishing day during the year. Yearly derivatives roll on the first publishing day of each year.

**Spreads:** Platts publishes a series of spread derivatives around the world, which reflect the value of different underlying physical benchmarks relative to others. These include: crack spreads (between products and crude); grade spreads (between different product specifications or crude grades); time spreads (between derivatives of different time maturities); location spreads (between different geographic locations); and contract spreads (between, for example, physical and derivative benchmarks).

Examples of such assessments include Singapore regrade derivatives which reflect the difference in value between jet fuel and gasoil; viscosity derivatives which reflect the difference in value between 180 CST fuel oil and 380 CST fuel oil; sulfur spreads or “hilo” derivatives that reflect the difference in value between high-sulfur and low-sulfur fuels; and spreads between refined product derivatives and related frontline futures.

## Futures assessments

Platts assesses the prevailing market value for several futures contracts on CME/NYMEX, ICE and DME. These assessments reflect the value of these contracts at the close of Platts assessment processes around the world.

Platts examines traded levels, bid and offer levels prior to the close of regional MOCs, and employs the same methodological principles used in its physical assessments - repeatability and incrementability - when assessing the prevailing value of futures at the close in each region. Platts tracks the movements in the bids and the offers, the spread between the bids and the offers, and the execution of those trades.

Furthermore, Platts analyzes the price trends leading up to the close, and considers only normal market activity in the assessment process. This is to ensure that the Platts assessment reflects a prevailing and representative value at the close, rather than an unusual trade occurring at that time, earlier or later.

For example, there may be a situation where liquidity in the third forward month is poor. In that situation, due to lack of trade in the time leading to the close, the value then may need to be inferred from a spread relationship in the absence of representative outright traded values. The values published are

editorial assessments of what the market value is at the close. The assessment may not be a specific transaction as it may have been an unusual and not representative event.

Here is an example of the assessment process for front-month NYMEX crude futures at the US close.

Time (ET)	Trades	Bid	Ask
2:29	80.00	80.00	80.05
	80.00	80.01	80.04
	80.01	80.01	80.03
	80.01	80.01	80.03
	80.01	80.01	80.03
	80.01	80.02	80.03
	80.02	80.01	80.03
	80.01	80.00	80.03
2:30	80.03		

In this example, repeatable value for NYMEX crude was \$80.01, and that was the most recent and representative deal immediately prior to the close. The \$80.03 deal at 2:30 pm ET came in right after the 2:30:00 pm ET MOC timestamp, and would not be considered in the assessment process.

The Platts assessment for front-month NYMEX crude futures value would be \$80.01.

Here is another example of the assessment process for front-month NYMEX crude futures at the US close.

Time (ET)	Trades	Bid	Ask
2:29	80.00	80.00	80.05
	80.00	80.01	80.04
	80.04	80.01	80.05
	80.05	80.01	80.05
	80.01	80.01	80.04
	80.01	80.02	80.03
	80.02	80.01	80.03
	80.01	80.00	80.03
2:30	80.03		

In this example, the repeatable value for NYMEX crude again was \$80.01, and that was the most recent deal immediately prior to 2:30:00 pm ET. The two deals at \$80.04 and \$80.05 created gaps and did not meet the repeatability standard.

The Platts assessment for front-month NYMEX crude futures value would be \$80.01.

## Futures settlements

Platts separately republishes settlements for a number of commodity futures contracts from exchanges. These settlements are clearly labelled as such in Platts publications and are provided for information purposes. The bases of these settlements are available from the relevant original providers.

**ASIA PACIFIC: CRUDE OIL**

	ICE Brent Futures at 1630 Singapore	Brent Frontline Derivs at 1630 Singapore	Dubai Derivs	Oman Derivs	NYMEX WTI Futures at 1630 Singapore	ICE Brent/NYMEX WTI Futures at 1630 Singapore	Brent/Dubai Derivs at 1630 Singapore	ICE Brent/Dubai EFS at 1630 Singapore	Oman/Dubai Derivs
CURRENCY	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$
UOM	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels
SETTLEMENT BASIS NAME	-	Brent Futures	Platts Dubai	Platts Oman	-	Brent Futures/NYMEX WTI Futures	Brent Frontline Derivs/Platts Dubai Derivs	Brent Futures/Platts Dubai Derivs	Platts Oman Derivs/Platts Dubai Derivs
SETTLEMENT BASIS CODE	-	XILL001	PCAT00	PCABS00	-	NA (Futures Are Exchanged)	NA (Derivs Are Exchanged)	NA (Futures/Derivs Are Exchanged)	NA (Derivs Are Exchanged)
Bal Month	-	-	-	-	-	-	-	-	-
M1	XILLA01	BRSSM01	AAHBM00	AAHZP00	XNCLA01	AAIWN01	AAHAI00	DEFSM02	AAIHJ00
M2	XILLA02	BRSSM02	AAHBN00	AAHZR00	XNCLA02	AAIWN02	AAHAJ00	DEFSM03	AAIHL00
M3	AAXZU00	BRSSM03	AAHBO00	AAHZT00	XNCLA03	AAIWN03	AAHAK00	DEFSM04	AAIHN00
M4	AAYAN00	BRSSM04	AAXGR00		XNCLA04	AAIWN04	AAXGN00	DEFSM05	
M5	XILLA05	BRSSM05	AAXGS00				AAXG000	DEFSM06	
M6	XILLA06	BRSSM06	AAXGT00				AAXGP00	DEFSM07	
M7	XILLA07	BRSSM07	AAXGU00				AAXGQ00	DEFSM08	
M8	XILLA08	BRSSM08	DBSSM08				BDSSM08	DEFSM09	
M9	XILLA09	BRSSM09	DBSSM09				BDSSM09	DEFSM10	
M10	XILLA10	BRSSM10	DBSSM10				BDSSM10	DEFSM11	
M11	XILLA11	BRSSM11	DBSSM11				BDSSM11	DEFSM12	
M12	XILLA12	BRSSM12	DBSSM12				BDSSM12	DEFSM13	
M13	XILLA13	BRSSM13	DBSSM13				BDSSM13		
M14	XILLA14	BRSSM14	DBSSM14				BDSSM14		
M15	XILLA15	BRSSM15	DBSSM15				BDSSM15		
M16	XILLA16	BRSSM16	DBSSM16				BDSSM16		
M17	XILLA17	BRSSM17	DBSSM17				BDSSM17		
M18	XILLA18	BRSSM18	DBSSM18				BDSSM18		
M19	XILLA19	BRSSM19	DBSSM19				BDSSM19		
M20	XILLA20	BRSSM20	DBSSM20				BDSSM20		
M21	XILLA21	BRSSM21	DBSSM21				BDSSM21		
M22	XILLA22	BRSSM22	DBSSM22				BDSSM22		
M23	XILLA23	BRSSM23	DBSSM23				BDSSM23		
M24	XILLA24	BRSSM24	DBSSM24				BDSSM24		
M25	XILLA25	BRSSM25	DBSSM25				BDSSM25		
M26	XILLA26	BRSSM26	DBSSM26				BDSSM26		
M27	XILLA27	BRSSM27	DBSSM27				BDSSM27		
M28	XILLA28	BRSSM28	DBSSM28				BDSSM28		
M29	XILLA29	BRSSM29	DBSSM29				BDSSM29		
M30	XILLA30	BRSSM30	DBSSM30				BDSSM30		
M31	XILLA31	BRSSM31	DBSSM31				BDSSM31		
M32	XILLA32	BRSSM32	DBSSM32				BDSSM32		
M33	XILLA33	BRSSM33	DBSSM33				BDSSM33		

**ASIA PACIFIC: CRUDE OIL**

	ICE Brent Futures at 1630 Singapore	Brent Frontline Derivs at 1630 Singapore	Dubai Derivs	Oman Derivs	NYMEX WTI Futures at 1630 Singapore	ICE Brent/NYMEX WTI Futures at 1630 Singapore	Brent/Dubai Derivs at 1630 Singapore	ICE Brent/Dubai EFS at 1630 Singapore	Oman/Dubai Derivs
<b>CURRENCY</b>	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$
<b>UOM</b>	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels
<b>SETTLEMENT BASIS NAME</b>	-	Brent Futures	Platts Dubai	Platts Oman	-	Brent Futures/NYMEX WTI Futures	Brent Frontline Derivs/Platts Dubai Derivs	Brent Futures/Platts Dubai Derivs	Platts Oman Derivs/Platts Dubai Derivs
<b>SETTLEMENT BASIS CODE</b>	-	XILL001	PCAT00	PCABS00	-	NA (Futures Are Exchanged)	NA (Derivs Are Exchanged)	NA (Futures/Derivs Are Exchanged)	NA (Derivs Are Exchanged)
M34	XILLA34	BRSSM34	DBSSM34				BDSSM34		
M35	XILLA35	BRSSM35	DBSSM35				BDSSM35		
M36	XILLA36	BRSSM36	DBSSM36				BDSSM36		
Q1	XILLR01	BRSSQ01	AAHBP00				AAHAL00		
Q2	XILLR02	BRSSQ02	AAHBQ00				AAHAM00		
Q3	XILLR03	BRSSQ03	AAHBR00				AAHAN00		
Q4	XILLR04	BRSSQ04	AAHBS00				AAHA000		
Q5	XILLR05								
Q6	XILLR06								
Q7	XILLR07								
Q8	XILLR08								
Q9	XILLR09								
Q10	XILLR10								
Q11	XILLR11								
Q12	XILLR12								
YEAR 1	XILLY01	BRSSY01	AAHBV00				AAHAR00		
YEAR 2	XILLY02	BRSSY02	AAHBW00				AAHAS00		
YEAR 3	XILLY03	BRSSY03	AAVFC00				BDSSY03		

**ASIA PACIFIC: CRUDE OIL (TIME SPREAD)**

	ICE Brent Futures Time Spread	Brent Derivs Time Spread at 1630 Singapore	Dubai Time Spread	NYMEX WTI Futures Time Spreads at 1630 Singapore
<b>CURRENCY</b>	US\$	US\$	US\$	US\$
<b>UOM</b>	Barrels	Barrels	Barrels	Barrels
<b>SETTLEMENT BASIS NAME</b>	-	-	Platts Dubai	-
<b>SETTLEMENT BASIS CODE</b>	-	-	-	-
Bal Month	-	-	-	-
M1	AAZ0102	BRTSM12	AAHBG00	ABC0102
M2	AAZ0203	BRTSM23	AAHBH00	ABC0203
M3	AAZ0304	BRTSM34	AAHBI00	ABC0304
M4	AAZ0405	BRTSM45	AAHBJ00	
M5	AAZ0506	BRTSM56	AAHBK00	
M6	AAZ0607	BRTSM67	AAHBL00	

**ASIA PACIFIC: CRUDE OIL (TIME SPREAD)**

	ICE Brent Futures Time Spread	Brent Derivs Time Spread at 1630 Singapore	Dubai Time Spread	NYMEX WTI Futures Time Spreads at 1630 Singapore
CURRENCY	US\$	US\$	US\$	US\$
UOM	Barrels	Barrels	Barrels	Barrels
SETTLEMENT BASIS NAME	-	-	Platts Dubai	-
SETTLEMENT BASIS CODE	-	-	-	-
M7	AAZ0708	BRTSM78	DBTSM45	
M8	AAZ0809	BRTSM89	DBTSM56	
M9	AAZ0910	BRTSM90	DBTSM67	
M10	AAZ1011	BRTSM01	DBTSM78	
M11	AAZ1112	BRTSM21	DBTSM89	
M12	AAZ1213			
M13	AAZ1314			
M14	AAZ1415			
M15	AAZ1516			
M16	AAZ1617			
M17	AAZ1718			
M18	AAZ1819			
M19	AAZ1920			
M20	AAZ2021			
M21	AAZ2122			
M22	AAZ2223			
M23	AAZ2324			
M24	AAZ2425			
M25	AAZ2526			
M26	AAZ2627			
M27	AAZ2728			
M28	AAZ2829			
M29	AAZ2930			
M30	AAZ3031			
M31	AAZ3132			
M32	AAZ3233			
M33	AAZ3334			
M34	AAZ3435			
M35	AAZ3536			
M36				
Q1	ABA0102	BRTSQ12		
Q2	ABA0203	BRTSQ23		
Q3	ABA0304	BRTSQ34		
Q4	ABA0405			
Q5	ABA0506			
Q6	ABA0607			
Q7	ABA0708			
Q8	ABA0809			
Q9	ABA0910			

**ASIA PACIFIC: CRUDE OIL (TIME SPREAD)**

	ICE Brent Futures Time Spread	Brent Derivs Time Spread at 1630 Singapore	Dubai Time Spread	NYMEX WTI Futures Time Spreads at 1630 Singapore
CURRENCY	US\$	US\$	US\$	US\$
UOM	Barrels	Barrels	Barrels	Barrels
SETTLEMENT BASIS NAME	-	-	Platts Dubai	-
SETTLEMENT BASIS CODE	-	-	-	-
Q10	<a href="#">ABA1011</a>			
Q11	<a href="#">ABA1112</a>			
Q12				
YEAR 1	<a href="#">ABB0102</a>	<a href="#">BRTSY12</a>		
YEAR 2	<a href="#">ABB0203</a>	<a href="#">BRTSY23</a>		
YEAR 3				

**ASIA PACIFIC: REFINED OIL PRODUCTS**

	Saudi CP Propane Derivs	Singapore 92 RON Gasoline Derivs	Singapore 95 RON Gasoline Derivs	Singapore 92 Ron Gasoline/Naphtha MOPS Reforming Spread Derivs	Singapore Naphtha MOPS Derivs	Japan Naphtha MOPJ Derivs	Naphtha CIF NWE Derivs at 1630 Singapore	Japan Naphtha Derivs vs Naphtha CIF NWE Derivs	Singapore Gasoil Derivs	Singapore Jet Kero Derivs	Singapore Jet Kero/Gasoil Regrade Derivs
CURRENCY	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$
UOM	Metric Tons	Barrels	Barrels	Barrels	Barrels	Metric Tons	Metric Tons	Metric Tons	Barrels	Barrels	Barrels
BASIS NAME	Saudi Aramco Propane CP	Singapore 92 RON Gasoline	Singapore 95 RON Gasoline	Reforming Spread Derivs	Naphtha FOB Spore Cargo	Naphtha C+F Japan Cargo	Naphtha CIF NWE Cargo	Naphtha C+F Japan Cargo/Naphtha CIF NWE Cargo	Gasoil FOB Spore Cargo	Jet Kero FOB Spore Cargo	Regrade Jet Gasoil Spore Derivs
BASIS CODE	PTAAM10	PGAAY00	PGAEZ00	-	PAAAP00	PAAAD00	PAAAL00	NA (Derivs Are Exchanged)	POABC00	PJABF00	PJABF00/POABC00
Bal Month	-	<a href="#">AAxEK00</a>	<a href="#">AGUMB00</a>	<a href="#">AAXEN00</a>	<a href="#">AAPLD00</a>	<a href="#">RAXFM00</a>	-	-	<a href="#">AAPLF00</a>	<a href="#">AAPLE00</a>	<a href="#">RJGSBAL</a>
M1	<a href="#">AAHHG00</a>	<a href="#">AAXEL00</a>	<a href="#">AGUMM01</a>	<a href="#">AAXE000</a>	<a href="#">PAAAQ00</a>	<a href="#">AAXFE00</a>	<a href="#">DAYAP00</a>	<a href="#">DAYAM00</a>	<a href="#">POAFC00</a>	<a href="#">PJABS00</a>	<a href="#">RJGSM01</a>
M2	<a href="#">AAHHH00</a>	<a href="#">AAXEM00</a>	<a href="#">AGUMM02</a>	<a href="#">AAXEP00</a>	<a href="#">PAAAR00</a>	<a href="#">AAXFF00</a>	<a href="#">DAYAQ00</a>	<a href="#">DAYAN00</a>	<a href="#">POAFG00</a>	<a href="#">PJABT00</a>	<a href="#">RJGSM02</a>
M3	<a href="#">AAHHI00</a>	<a href="#">AAXEM30</a>		<a href="#">AAXEP30</a>	<a href="#">AAHHU00</a>	<a href="#">AAXFG00</a>	<a href="#">DAYAR00</a>	<a href="#">DAYAO00</a>	<a href="#">AAHDZ00</a>	<a href="#">AAHGS00</a>	<a href="#">RJGSM03</a>
M4		<a href="#">AAXEM04</a>		<a href="#">AAXRM04</a>	<a href="#">AAWIY00</a>	<a href="#">DAXFH00</a>			<a href="#">AAHEA00</a>	<a href="#">AAHGT00</a>	<a href="#">RJGSM04</a>
M5		<a href="#">AAXEM05</a>		<a href="#">AAXRM05</a>	<a href="#">NASSM05</a>	<a href="#">DAXFI00</a>			<a href="#">AAXHW00</a>	<a href="#">AAXIC00</a>	<a href="#">RJGSM05</a>
M6		<a href="#">AAXEM06</a>		<a href="#">AAXRM06</a>	<a href="#">NASSM06</a>	<a href="#">DAXFJ00</a>			<a href="#">AAXHX00</a>	<a href="#">AAXID00</a>	<a href="#">RJGSM06</a>
M7		<a href="#">AAXEM07</a>		<a href="#">AAXRM07</a>	<a href="#">NASSM07</a>	<a href="#">DAXFK00</a>			<a href="#">AAXHY00</a>	<a href="#">AAXIE00</a>	<a href="#">RJGSM07</a>
M8		<a href="#">AAXEM08</a>		<a href="#">AAXRM08</a>	<a href="#">NASSM08</a>	<a href="#">DAXFL00</a>			<a href="#">GOSSM08</a>	<a href="#">JKSSM08</a>	<a href="#">RJGSM08</a>
M9		<a href="#">AAXEM09</a>		<a href="#">AAXRM09</a>	<a href="#">NASSM09</a>	<a href="#">DAXFM00</a>			<a href="#">GOSSM09</a>	<a href="#">JKSSM09</a>	<a href="#">RJGSM09</a>
M10		<a href="#">AAXEM10</a>		<a href="#">AAXRM10</a>	<a href="#">NASSM10</a>	<a href="#">DAXFN00</a>			<a href="#">GOSSM10</a>	<a href="#">JKSSM10</a>	<a href="#">RJGSM10</a>
M11		<a href="#">AAXEM11</a>		<a href="#">AAXRM11</a>	<a href="#">NASSM11</a>	<a href="#">DAXFO00</a>			<a href="#">GOSSM11</a>	<a href="#">JKSSM11</a>	<a href="#">RJGSM11</a>
M12		<a href="#">AAXEM12</a>		<a href="#">AAXRM12</a>	<a href="#">NASSM12</a>	<a href="#">DAXFP00</a>			<a href="#">GOSSM12</a>	<a href="#">JKSSM12</a>	<a href="#">RJGSM12</a>
M13											
M14											
M15											
M16											
M17											

**ASIA PACIFIC: REFINED OIL PRODUCTS**

	Saudi CP Propane Derivs	Singapore 92 RON Gasoline Derivs	Singapore 95 RON Gasoline Derivs	Singapore 92 Ron Gasoline/Naphtha MOPS Reforming Spread Derivs	Singapore Naphtha MOPS Derivs	Japan Naphtha MOPJ Derivs	Naphtha CIF NWE Derivs at 1630 Singapore	Japan Naphtha Derivs vs Naphtha CIF NWE Derivs	Singapore Gasoil Derivs	Singapore Jet Kero Derivs	Singapore Jet Kero/Gasoil Regrade Derivs
CURRENCY	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$
UOM	Metric Tons	Barrels	Barrels	Barrels	Barrels	Metric Tons	Metric Tons	Metric Tons	Barrels	Barrels	Barrels
BASIS NAME	Saudi Aramco Propane CP	Singapore 92 RON Gasoline	Singapore 95 RON Gasoline	Reforming Spread Derivs	Naphtha FOB Spore Cargo	Naphtha C+F Japan Cargo	Naphtha CIF NWE Cargo	Naphtha C+F Japan Cargo/ Naphtha CIF NWE Cargo	Gasoil FOB Spore Cargo	Jet Kero FOB Spore Cargo	Regrade Jet Gasoil Spore Derivs
BASIS CODE	PTAAM10	PGAAY00	PGAEZ00	-	PAAAP00	PAAAD00	PAAAL00	NA (Derivs Are Exchanged)	POABC00	PJABF00	PJABF00/ POABC00
M18											
M19											
M20											
M21											
M22											
M23											
M24											
M25											
M26											
M27											
M28											
M29											
M30											
M31											
M32											
M33											
M34											
M35											
M36											
Q01											
Q02											
Q03											
Q04											
Q05											
Q06											
Q07											
Q08											
Q09											
Q10											
Q11											
Q12											
Y01											
Y02											
Y03											



**ASIA PACIFIC: REFINED OIL PRODUCTS**

	ICE Gasoil Futures at 4:30 pm Singapore	Platts ICE Gasoil Frontline Derivs at 1630 Singapore	ICE Gasoil EFS at 1630 Singapore	Platts ICE Gasoil ESS at 1630 Singapore	Singapore 180 CST Fuel Oil Derivs	Singapore 380 CST Fuel Oil Derivs	Viscosity Spread Singapore 180/380 Fuel Oil Derivs	Singapore Marine Fuel 0.5% Derivs	3.5% Fuel Oil FOB ARA Barge Derivs at 1630 Singapore	Singapore 180 CST Fuel Oil Derivs vs 3.5% Fuel Oil Rotterdam Barges at 1630 Singapore
CURRENCY	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$
UOM	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons
BASIS NAME	ICE Gasoil futures	ICE Gasoil Futures at 4:30 pm Singapore		ICE Gasoil Futures at 4:30 pm Singapore/Gasoil FOB Spore Cargo	FO 180 CST 3.5%S FOB Spore Cargo	FO 380 CST 3.5%S FOB Spore Cargo	Viscosity Spread FOB Singapore	FOB Singapore Marine Fuel 0.5%	FO 3.5%S FOB Rdam Barge	FO 180 CST 3.5%S FOB Spore Cargo/ FO 3.5%S FOB Rdam Barge
BASIS CODE	ICL0001	AAQYM01	AAQYM01/POABC00	AAQYM01/POABC00	PUADV00	PPXDK00	-	AMFSA00	PUABC00	NA (Derivs Are Exchanged)
Bal Month		-	AAQTX00	-	AAPML00	AAPKB00	-	FOFS000	-	-
M1	AAQYM01	AAQAM01	AAQTY00	AAQXM01	PUAXZ00	AAPKC00	AAVFL00	FOFS001	AAEI001	F1SEW01
M2	AAQYM02	AAQAM02	AAQTZ00	AAQXM02	PUAYF00	AAPKD00	AAVFM00	FOFS002	AAEI002	F1SEW02
M3	AAQYM03	AAQAM03	AAQSM03	AAQXM03	AAHDB00	AAVFF00	AAVFN00	FOFS003	AAEI003	F1SEW03
M4	AAQYM04	AAQAM04	AAQSM04	AAQXM04	AAHDC00	AAVFG00	AAVFO00	FOFS004	AAEI004	F1SEW04
M5	AAQYM05	AAQAM05	AAQSM05	AAQXM05	AAXHP00	AAXGH00	AAXII00	FOFS005	AAEI005	F1SEW05
M6	AAQYM06	AAQAM06	AAQSM06	AAQXM06	AAXHR00	AAXGI00	AAXIJ00	FOFS006	AAEI006	F1SEW06
M7	AAQYM07	AAQAM07	AAQSM07	AAQXM07	AAXHS00	AAXGJ00	AAXIK00	FOFS007	AAEI007	F1SEW07
M8	AAQYM08	AAQAM08	AAQSM08	AAQXM08	F1SSM08	F3SSM08	VSSSM08	FOFS008	AAEI008	F1SEW08
M9	AAQYM09	AAQAM09	AAQSM09	AAQXM09	F1SSM09	F3SSM09	VSSSM09	FOFS009	AAEI009	F1SEW09
M10	AAQYM10	AAQAM10	AAQSM10	AAQXM10	F1SSM10	F3SSM10	VSSSM10	FOFS010	AAEI010	F1SEW10
M11	AAQYM11	AAQAM11	AAQSM11	AAQXM11	F1SSM11	F3SSM11	VSSSM11	FOFS011	AAEI011	F1SEW11
M12	AAQYM12	AAQAM12	AAQSM12	AAQXM12	F1SSM12	F3SSM12	VSSSM12	FOFS012	AAEI012	F1SEW12
M13	AAQYM13									
M14	AAQYM14									
M15	AAQYM15									
M16	AAQYM16									
M17	AAQYM17									
M18	AAQYM18									
M19	AAQYM19									
M20	AAQYM20									
M21	AAQYM21									
M22	AAQYM22									
M23	AAQYM23									
M24	AAQYM24									
M25	AAQYM25									
M26	AAQYM26									
M27	AAQYM27									
M28	AAQYM28									
M29	AAQYM29									
M30	AAQYM30									
M31	AAQYM31									
M32	AAQYM32									
M33	AAQYM33									
M34	AAQYM34									

**ASIA PACIFIC: REFINED OIL PRODUCTS**

	ICE Gasoil Futures at 4:30 pm Singapore	Platts ICE Gasoil Frontline Derivs at 1630 Singapore	ICE Gasoil EFS at 1630 Singapore	Platts ICE Gasoil ESS at 1630 Singapore	Singapore 180 CST Fuel Oil Derivs	Singapore 380 CST Fuel Oil Derivs	Viscosity Spread Singapore 180/380 Fuel Oil Derivs	Singapore Marine Fuel 0.5% Derivs	3.5% Fuel Oil FOB ARA Barge Derivs at 1630 Singapore	Singapore 180 CST Fuel Oil Derivs vs 3.5% Fuel Oil Rotterdam Barges at 1630 Singapore
CURRENCY	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$
UOM	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons
BASIS NAME	ICE Gasoil futures	ICE Gasoil Futures at 4:30 pm Singapore		ICE Gasoil Futures at 4:30 pm Singapore/Gasoil FOB Spore Cargo	FO 180 CST 3.5%S FOB Spore Cargo	FO 380 CST 3.5%S FOB Spore Cargo	Viscosity Spread FOB Singapore	FOB Singapore Marine Fuel 0.5%	FO 3.5%S FOB Rdam Barge	FO 180 CST 3.5%S FOB Spore Cargo/ FO 3.5%S FOB Rdam Barge
BASIS CODE	ICL0001	AAQYM01	AAQYM01/POABC00	AAQYM01/POABC00	PUADV00	PPXDK00	-	AMFSA00	PUABC00	NA (Derivs Are Exchanged)
M35	AAQYM35									
M36	AAQYM36									
Q01	AAQZQ01	AARZQ01	AAQUQ01	AAQXQ01	AAHDD00	AAVFH00	AAVFP00	FOFSQ01		
Q02	AAQZQ02	AARZQ02	AAQUQ02	AAQXQ02	AAHDE00	AAVFJ00	AAVFP00	FOFSQ02		
Q03	AAQZQ03	AARZQ03	AAQUQ03	AAQXQ03	AAHDF00	AAVFT00	AAVFR00	FOFSQ03		
Q04	AAQZQ04				AAHDG00	AAVFK00	AAVFS00	FOFSQ04		
Q05	AAQZQ05									
Q06	AAQZQ06									
Q07	AAQZQ07									
Q08	AAQZQ08									
Q09	AAQZQ09									
Q10	AAQZQ10									
Q11	AAQZQ11									
Q12	AAQZQ12									
Y01	AARCY01									
Y02	AARCY02									
Y03	AARCY03									

**ASIA PACIFIC: REFINED OIL PRODUCTS**

	MOPAG Gasoline 92 Unl Derivs	MOPAG Gasoline 95 Unl Derivs	MOPAG Naphtha Derivs	MOPAG Jet Kero Derivs	MOPAG Gasoil Derivs	MOPAG 180CST Fuel Oil Derivs SGT 1730hrs	MOPAG 380CST Fuel Oil Derivs	FOB Fujairah Marine Fuel 0.5% Derivs
CURRENCY	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$
UOM	Barrels	Barrels	Metric Tons	Barrels	Barrels	Metric Tons	Metric Tons	Metric Tons
BASIS NAME	FOB Arab Gulf 92 RON Gasoline	FOB Arab Gulf 95 RON Gasoline	FOB Arab Gulf Naphtha	FOB Arab Gulf Jet Kero Cargo	Gasoil FOB Arab Gulf Cargo	FO 180 CST High Sulfur FOB Arab Gulf	FO 380 CST High Sulfur FOB Arab Gulf	FOB Fujairah Marine Fuel 0.5%
BASIS CODE	AAGJA00	AAICY00	PAAAA00	PJAAA00	POAAT00	PUABE00	AAIDC00	AMFFA00
Bal Month	RAGFM00	AFUIM00	NAGFM00	AFUAM00	AFUJM00	AADZB00	AFURM00	FOFF000
M1	RAGFM01	AFUIM01	NAGFM01	AFUAM01	AFUJM01	AADZM01	AFURM01	FOFF001
M2	RAGFM02	AFUIM02	NAGFM02	AFUAM02	AFUJM02	AADZM02	AFURM02	FOFF002
M3								
M4								
M5								
M6								
M7								
M8								
M9								
M10								
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Q01								
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Q11								
Q12								
Y01								
Y02								
Y03								

**ASIA PACIFIC: REFINED OIL PRODUCTS (TIME SPREAD)**

	Singapore 92 RON Gasoline Derivs Time Spread	Singapore Naphtha MOPS Derivs Time Spread	Japan Naphtha MOPJ Derivs Time Spread	Singapore Gasoil Derivs Time Spread	Singapore Jet Kero Derivs Time Spread	ICE Gasoil Futures Time Spread at 1630 Singapore	Platts ICE Gasoil Frontline Derivs Time Spread at 1630 Singapore	Singapore 180 CST Fuel Oil Derivs Time Spread	Singapore 380 CST Fuel Oil Derivs Time Spread	Singapore Marine Fuel 0.5% Derivs Time Spread	FOB Fujairah Marine Fuel 0.5% Derivs Time Spread	3.5% Fuel Oil FOB ARA Barge Derivs Time Spreads at 1630 Singapore
CURRENCY	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$
UOM	Barrels	Barrels	Metric Tons	Barrels	Barrels	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons
BASIS NAME	-	-	-	-	-	-	-	-	-	-	-	-
BASIS CODE	-	-	-	-	-	-	-	-	-	-	-	-
Bal Month	-	-	-	-	-	-	-	-	-	-	-	-
M1	AAE0102	AAJTE00	DAM0102	AAHEH00	AAHHA00	ABM0102	ACM0102	AAHDJ00	AAWGS00	FSM0102	FFM0102	FIS0102
M2	AAE0203	AAJTF00	DAM0203	AAHEI00	AAHHB00	ABM0203	ACM0203	AAHDK00	AAWGT00	FSM0203		FIS0203
M3	AAE0304	AAJTG00	DAM0304	AAHEJ00	AAHHC00	ABM0304	ACM0304	AAHDL00	AAWGU00	FSM0304		FIS0304
M4	AAE0405	NATSM45	DAM0405	AAXHZ00	AAXIF00	ABM0405	ACM0405	AAXHT00	AAXGK00	FSM0405		FIS0405
M5	AAE0506	NATSM56	DAM0506	AAXIA00	AAXIG00	ABM0506	ACM0506	AAXHU00	AAXGL00	FSM0506		FIS0506
M6	AAE0607	NATSM67	DAM0607	AAXIB00	AAXIH00	ABM0607	ACM0607	AAXHV00	AAXGM00	FSM0607		FIS0607
M7	AAE0708	NATSM78	DAM0708	GOTSM78	JKTSM78	ABM0708	ACM0708	F1TSM78	F3TSM78	FSM0708		FIS0708
M8	AAE0809	NATSM89	DAM0809	GOTSM89	JKTSM89	ABM0809	ACM0809	F1TSM89	F3TSM89	FSM0809		FIS0809
M9	AAE0910	NATSM09	DAM0910	GOTSM90	JKTSM90	ABM0910	ACM0910	F1TSM90	F3TSM90	FSM0910		FIS0910
M10	AAE1011	NATSM10	DAM1011	GOTSM01	JKTSM01	ABM1011	ACM1011	F1TSM01	F3TSM01	FSM1011		FIS1011
M11	AAE1112	NATSM11	DAM1112	GOTSM21	JKTSM21	ABM1112	ACM1112	F1TSM21	F3TSM21	FSM1112		FIS1112
M12						ABM1213						
M13						ABM1314						
M14						ABM1415						
M15						ABM1516						
M16						ABM1617						
M17						ABM1718						
M18						ABM1819						
M19						ABM1920						
M20						ABM2021						
M21						ABM2122						
M22						ABM2223						
M23						ABM2324						
M24						ABM2425						
M25						ABM2526						
M26						ABM2627						
M27						ABM2728						
M28						ABM2829						
M29						ABM2930						
M30						ABM3031						
M31						ABM3132						
M32						ABM3233						
M33						ABM3334						
M34						ABM3435						

**ASIA PACIFIC: REFINED OIL PRODUCTS (TIME SPREAD)**

	Singapore 92 RON Gasoline Derivs Time Spread	Singapore Naphtha MOPS Derivs Time Spread	Japan Naphtha MOPJ Derivs Time Spread	Singapore Gasoil Derivs Time Spread	Singapore Jet Kero Derivs Time Spread	ICE Gasoil Futures Time Spread at 1630 Singapore	Platts ICE Gasoil Frontline Derivs Time Spread at 1630 Singapore	Singapore 180 CST Fuel Oil Derivs Time Spread	Singapore 380 CST Fuel Oil Derivs Time Spread	Singapore Marine Fuel 0.5% Derivs Time Spread	FOB Fujairah Marine Fuel 0.5% Derivs Time Spread	3.5% Fuel Oil FOB ARA Barge Derivs Time Spreads at 1630 Singapore
CURRENCY	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$
UOM	Barrels	Barrels	Metric Tons	Barrels	Barrels	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons
BASIS NAME	-	-	-	-	-	-	-	-	-	-	-	-
BASIS CODE	-	-	-	-	-	-	-	-	-	-	-	-
M35						ABM3536						
M36												
Q01	AAR0102	AAJTH00	DAQ0102	AAHEK00	AAHHD00	ABQ0102	ACQ0102	AAHDM00	AAWGV00	FSQ0102		
Q02	AAR0203	AAJTI00	DAQ0203	AAHEL00	AAHHE00	ABQ0203	ACQ0203	AAHDN00	AAWGW00	FSQ0203		
Q03	AAR0304	NATSQ34		AAHEM00	AAHHF00	ABQ0304		AAHDO00	AAWX00	FSQ0304		
Q04						ABQ0405						
Q05						ABQ0506						
Q06						ABQ0607						
Q07						ABQ0708						
Q08						ABQ0809						
Q09						ABQ0910						
Q10						ABQ1011						
Q11						ABQ1112						
Q12												
Y01						ABY0102						
Y02						ABY0203						
Y03												

**ASIA PACIFIC: REFINED OIL PRODUCTS (crack spread)**

	Singapore 92 RON Gasoline/ Dubai Crack Derivs	Singapore 92 RON Gasoline/ Brent Crack Derivs	Naphtha MOPS/Dubai Crack Derivs	Naphtha MOPS/Brent Crack Derivs	Naphtha MOPJ/Dubai Crack Derivs	Naphtha MOPJ/Brent Crack Derivs	Singapore Gasoil/Dubai Crack Derivs	Singapore Gasoil/Brent Crack Derivs	Singapore Jet Kero/ Dubai Crack Derivs	Singapore Jet Kero/ Brent Crack Derivs	Singapore 180 CST Fuel Oil /Dubai Crack Derivs	Singapore 180 CST Fuel Oil /Brent Crack Derivs	Singapore 380 CST Fuel Oil /Dubai Crack Derivs	Singapore 380 CST Fuel Oil /Brent Crack Derivs	3.5% Fuel Oil FOB ARA Barge/Brent Crack Derivs at 1630 Singapore
CURRENCY	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$
UOM	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons
BASIS NAME	Gasoline 92 RON FOB Singapore Dubai Crack Derivs	Gasoline 92 RON FOB Singapore Brent Crack Derivs	Naphtha Spore Dubai Crack Derivs	Naphtha Spore Brent Crack Derivs	Naphtha Japan Dubai Crack Derivs	Naphtha Japan Brent Crack Derivs	Gasoil Dubai Crack Derivs	Gasoil Brent Crack Derivs	Jet Kero Dubai Crack Derivs	Jet Kero Brent Crack Derivs	180 CST Fuel Oil Dubai Crack Derivs	180 CST Fuel Oil Brent Crack Derivs	380 CST Fuel Oil Dubai Crack Derivs	380 CST Fuel Oil Brent Crack Derivs	3.5% Fuel Oil FOB ARA Barge Crack Derivs at 1630 Singapore
BASIS CODE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bal Month	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
M1	AAVED00	AAVEH00	AAHCS00	NBSSM01	AAVUD00	AAVUA00	AAHCE00	GBSCM01	AAHCL00	JBSCM01	AAHBX00	F1BCM01	AAWHA00	F3BCM01	F1SBR01
M2	AAVEE00	AAVEI00	AAHCT00	NBSSM02	AAVUE00	AAVUB00	AAHCF00	GBSCM02	AAHCM00	JBSCM02	AAHBY00	F1BCM02	AAWHB00	F3BCM02	F1SBR02
M3	AAVEE50	AAVEJ00	AAHCU00	NBSSM03	AAVUF00	AAVUC00	AAHCG00	GBSCM03	AAHCN00	JBSCM03	AAHBZ00	F1BCM03	AAWHC00	F3BCM03	F1SBR03
M4	AAAYEM04	AAAYE204	AAXH000	NBSSM04	DAXFZ00	DAXFQ00	AAXGZ00	GBSCM04	DAXHD00	JBSCM04	AAXGV00	F1BCM04	AAXGD00	F3BCM04	F1SBR04
M5	AAAYEM05	AAAYE205	NDCSM05	NBSSM05	DAXGA00	DAXFR00	AAXHA00	GBSCM05	AAXHE00	JBSCM05	AAXGW00	F1BCM05	AAXGE00	F3BCM05	F1SBR05
M6	AAAYEM06	AAAYE206	NDCSM06	NBSSM06	DAXGB00	DAXFS00	AAXHB00	GBSCM06	AAXHM00	JBSCM06	AAXGX00	F1BCM06	AAXGF00	F3BCM06	F1SBR06
M7	AAAYEM07	AAAYE207	NDCSM07	NBSSM07	DAXGC00	DAXFT00	AAXHC00	GBSCM07	DAXHN00	JBSCM07	AAXGY00	F1BCM07	AAXGG00	F3BCM07	F1SBR07
M8	AAAYEM08	AAAYE208	NDCSM08	NBSSM08	DAXGD00	DAXFU00	GODCM08	GBSCM08	JDCSM08	JBSCM08	F1DCM08	F1BCM08	F3DCM08	F3BCM08	F1SBR08
M9	AAAYEM09	AAAYE209	NDCSM09	NBSSM09	DAXGE00	DAXFV00	GODCM09	GBSCM09	JDCSM09	JBSCM09	F1DCM09	F1BCM09	F3DCM09	F3BCM09	F1SBR09
M10	AAAYEM10	AAAYE210	NDCSM10	NBSSM10	DAXGF00	DAXFW00	GODCM10	GBSCM10	JDCSM10	JBSCM10	F1DCM10	F1BCM10	F3DCM10	F3BCM10	F1SBR10
M11	AAAYEM11	AAAYE211	NDCSM11	NBSSM11	DAXGG00	DAXFX00	GODCM11	GBSCM11	JDCSM11	JBSCM11	F1DCM11	F1BCM11	F3DCM11	F3BCM11	F1SBR11
M12	AAAYEM12	AAAYE212	NDCSM12	NBSSM12	DAXGH00	DAXFY00	GODCM12	GBSCM12	JDCSM12	JBSCM12	F1DCM12	F1BCM12	F3DCM12	F3BCM12	F1SBR12
M13															
M14															
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**ASIA PACIFIC: REFINED OIL PRODUCTS (crack spread)**

	Singapore 92 RON Gasoline/ Dubai Crack Derivs	Singapore 92 RON Gasoline/ Brent Crack Derivs	Naphtha MOPS/Dubai Crack Derivs	Naphtha MOPS/Brent Crack Derivs	Naphtha MORJ/Dubai Crack Derivs	Naphtha MORJ/Brent Crack Derivs	Singapore Gasoil/Dubai Crack Derivs	Singapore Gasoil/Brent Crack Derivs	Singapore Jet Kero/ Dubai Crack Derivs	Singapore Jet Kero/ Brent Crack Derivs	Singapore 180 CST Fuel Oil /Dubai Crack Derivs	Singapore 180 CST Fuel Oil /Brent Crack Derivs	Singapore 380 CST Fuel Oil /Dubai Crack Derivs	Singapore 380 CST Fuel Oil /Brent Crack Derivs	3.5% Fuel Oil FOB ARA Barge/Brent Crack Derivs at 1630 Singapore
CURRENCY	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$
UOM	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons
BASIS NAME	Gasoline 92 RON FOB Singapore Dubai Crack Derivs	Gasoline 92 RON FOB Singapore Brent Crack Derivs	Naphtha Spore Dubai Crack Derivs	Naphtha Spore Brent Crack Derivs	Naphtha Japan Dubai Crack Derivs	Naphtha Japan Brent Crack Derivs	Gasoil Dubai Crack Derivs	Gasoil Brent Crack Derivs	Jet Kero Dubai Crack Derivs	Jet Kero Brent Crack Derivs	180 CST Fuel Oil Dubai Crack Derivs	180 CST Fuel Oil Brent Crack Derivs	380 CST Fuel Oil Dubai Crack Derivs	380 CST Fuel Oil Brent Crack Derivs	3.5% Fuel Oil FOB ARA Barge Crack Derivs at 1630 Singapore
BASIS CODE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
M35															
M36															
Q01	AAEQ01	AAYG01	AAHCV00	NBSSQ01			AAHC00	GBSCQ01	AAHC000	JBSCQ01	AAHCA00	F1BCQ01	AAWHH00	F3BCQ01	
Q02	AAEQ02	AAYG02	AAHCW00	NBSSQ02			AAHCI00	GBSCQ02	AAHCP00	JBSCQ02	AAHCB00	F1BCQ02	AAWHI00	F3BCQ02	
Q03	AAEQ03	AAYG03	AAHCX00	NBSSQ03			AAHCJ00	GBSCQ03	AAHCQ00	JBSCQ03	AAHCC00	F1BCQ03	AAWHJ00	F3BCQ03	
Q04	AAEQ04	AAYG04	AAHCY00	NBSSQ04			AAHCK00	GBSCQ04	AAHCR00	JBSCQ04	AAHCD00	F1BCQ04	AAWHO00	F3BCQ04	
Q05															
Q06															
Q07															
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Q11															
Q12															
Y01															
Y02															
Y03															

**Asia Pacific**

In Asia, PFC oil assessments reflect a Market on Close value at 16:30 Singapore time for all published forward curves, except where otherwise noted.

**Crude oil**

Singapore 16:30 Platts assessment for ICE Brent futures: Platts assesses on a daily basis the prevailing value of ICE Brent

futures at 16:30 Singapore time. Platts assessments reflect the tradable and repeatable value of Brent futures for the front 36 months, 12 quarters and three years exactly at that time. Platts uses all information available to assess outright futures prices at 16:30 Singapore time, including both outright price and time spread information. Further to this, Platts reporters look at current market trends in the immediate period before and after 16:30. This is to ensure that the Platts assessment reflects a prevailing and representative value at 16:30 rather than an unusual trade occurring at that time or earlier. This is of critical

importance when liquidity is reduced.

The 16:30 Singapore time futures assessments are evaluated at this time to ensure that Brent futures or those assessments linked to futures values are in line with all other timestamps across Platts crude and refined products assessments. The Brent contract traded on the ICE platform settles at a different time.

Platts 16:30 assessments of Brent futures are incorporated into

the Brent frontline derivative calculations.

Singapore 16:30 Platts assessment for NYMEX WTI futures: Platts assesses on a daily basis the prevailing value of NYMEX light sweet crude futures at 16:30 Singapore time. Platts assessments reflect the tradable and repeatable value of WTI futures for the front four months at that time. Platts uses all information available to assess outright futures prices at 16:30 Singapore time. Platts editorial team reviews all relevant electronic data.

Singapore 16:30 Platts assessment for ICE Brent futures vs NYMEX WTI futures spreads: Platts publishes ICE Brent and NYMEX WTI crude futures spread assessments at 16:30 Singapore time based on flat price assessments for four forward months.

**Brent frontline derivatives:** Brent frontline derivatives are calendar month derivatives that settle using the ICE Brent futures contract. The derivative is financially settled using the closing price on each day of the month, for whichever futures contract is most prompt on each day. Platts publishes the front 36 months, four quarters and three years of frontline Brent derivatives in Asia.

**Dubai derivatives:** The Dubai derivatives market is often used to hedge heavy, medium sour crude cargoes from the Middle East and Russia's Far East. Dubai derivatives are settled against the average of Platts front-month spot Dubai crude assessments as published in the Platts Crude Oil Marketwire. The Dubai paper assessment reflects paper transactions of a minimum of 50,000 barrels. Platts publishes the front 36 months, four quarters and three years of Dubai derivatives in Asia.

**Oman derivatives:** The Oman derivatives market is often used to hedge heavy, medium sour crude cargoes from the Middle East. Oman derivatives are settled against the average of Platts front-month spot Oman crude assessments as published in the Platts Crude Oil Marketwire. The Oman paper assessment reflects

paper transactions of a minimum of 50,000 barrels. Platts publishes three forward months for this derivatives assessment.

**Brent/Dubai derivatives:** This enables holders of frontline ICE Brent futures derivatives to exchange their position for a forward month Dubai crude derivative, similar to the Brent EFP (where parties convert a futures position into a Brent forward or physical cargo) and a Brent/Dubai EFS (where parties trade a Brent futures contract for a Dubai derivative). In a Brent/Dubai derivative, the Brent derivative position is converted into a Dubai monthly derivative, plus the seller receives a premium for the quality spread. Platts assesses the first 36 months, four quarters and three years of Brent/Dubai derivatives. Platts also assesses the first 12 months of Brent/Dubai EFS.

**Oman/Dubai derivatives:** This enables holders of Oman crude derivatives to exchange their position for a forward month Dubai crude derivative. These are calendar month, derivative-derivative markets. In an Oman/Dubai derivative, the Oman derivative position is converted into a Dubai monthly derivative, plus the seller receives a premium for the quality spread. Platts publishes three forward months for this derivatives assessment.

## Refined oil products

**Saudi CP propane derivatives:** Saudi CP propane derivatives settle against the Contract Price set for each month by Saudi Aramco. The Saudi CP, which determines the value of all propane to be lifted each month on a FOB basis by its long term customers, is set only once a month, and is usually announced on the last Saudi business day of the month prior to coming into effect.

**Gasoline:** Singapore 92 RON gasoline derivatives settle against Platts FOB Singapore 92 RON gasoline assessments as published in the Platts Asia-Pacific/Arab Gulf Marketscan. Gasoline derivatives typically trade in 1 cent/barrel increments. The Singapore gasoline paper assessments reflect paper transactions of a minimum of 25,000 barrels. Platts also

assesses gasoline/naphtha derivatives, also known as the Reforming Derivative. These settle against the difference between the FOB Singapore gasoline and FOB Singapore naphtha assessments as published in the Platts Asia-Pacific/Arab Gulf Marketscan. Platts publishes 12 forward months, and three forward quarters for this forward curve.

On September 2, 2019, Platts launched Singapore 95 RON gasoline derivatives that settle against the Platts FOB Singapore 95 RON gasoline assessments as published in the Platts Asia-Pacific/Arab Gulf Marketscan. Gasoline derivatives typically trade in 1 cent/barrel increments. The Singapore gasoline paper assessments reflect paper transactions of a minimum of 25,000 barrels. Platts publishes 3 forward months, which includes Balance Month, Month 1 and Month 2.

The MOPAG 95 RON gasoline derivatives settle against Platts MOPAG 95 RON gasoline netback assessments as published in the Platts Asia-Pacific/Arab Gulf Marketscan. Platts publishes balance month, Month 1 and Month 2 assessments for MOPAG 95 RON gasoline derivatives.

On September 1, 2020, Platts launched MOPAG 92 RON gasoline derivatives that settle against the Platts MOPAG 92 RON gasoline netback assessments as published in the Platts Asia-Pacific/Arab Gulf Marketscan. Platts publishes Balance Month, Month 1 and Month 2 assessments for MOPAG 92 RON gasoline derivatives.

**Naphtha:** MOPS naphtha derivatives settle against Platts FOB Singapore naphtha assessments (often referred to as the Mean of Platts Singapore, or MOPS) as published in the Asia-Pacific/Arab Gulf Marketscan. Naphtha derivatives typically trade in 1 cent/barrel increments. The Singapore naphtha paper assessments reflect paper transactions of a minimum of 50,000 barrels. Platts publishes 12 forward months and four forward quarters for this forward curve.

MORJ naphtha derivatives settle against Platts C+F Japan



naphtha assessments (often referred to as the Mean of Platts Japan, or MORJ) as published in the Asia-Pacific/Arab Gulf Marketscan. Naphtha derivatives typically trade in 5 cents/mt increments. The Japan naphtha paper assessments reflect paper transactions of a minimum of 5,000 mt. Platts publishes Balance Month, 12 forward months, and three forward quarters for this forward curve.

On September 1, 2020, Platts launched MOPAG naphtha derivatives that settle against the Platts MOPAG naphtha netback assessments as published in the Platts Asia-Pacific/Arab Gulf Marketscan. Platts publishes Balance Month, Month 1 and Month 2 assessments for MOPAG naphtha derivatives.

MOPJ/CIF NWE derivatives settle against Platts CIF Northwest Europe naphtha assessments (often referred to as CIF NWE) as published in the European Marketscan. Naphtha derivatives typically trade in 5 cents/mt increments. The MOPJ/CIF NWE naphtha paper assessments reflect paper transactions of a minimum of 5,000 mt. Platts publishes three forward months for this forward curve.

**Middle Distillates:** Singapore gasoil and jet derivatives settle against Platts FOB Singapore Gasoil and FOB Singapore jet fuel/kerosene assessments as published in the Platts Asia-Pacific/Arab Gulf Marketscan. Both products typically trade in 1 cent/barrel increments. FOB Singapore Gasoil currently reflects maximum 0.001% (10 ppm) sulfur content. The Singapore gasoil and jet fuel paper assessments reflect paper transactions of a minimum of 50,000 barrels. Platts also assesses jet fuel/gasoil spread derivatives, also known as the Regrade Derivative. These settle against the difference between the FOB Singapore Gasoil and FOB Singapore jet fuel/kerosene assessments as published in the Platts Asia-Pacific/Arab Gulf Marketscan. Platts publishes 12 forward months and four forward quarters for each of these forward curves. Platts also assesses the Singapore Gasoil EFS, where parties trade a FOB Singapore Gasoil derivative, converted into \$/mt using a conversion rate of 7.45, for an ICE gasoil futures contract plus a differential.

The MOPAG jet fuel derivatives settle against Platts MOPAG jet fuel netback assessments as published in the Platts Asia-Pacific/Arab Gulf Marketscan. Platts publishes balance month, Month 1 and Month 2 assessments for MOPAG jet fuel derivatives.

Singapore 16:30 Platts assessment for ICE gasoil futures: Platts assesses on a daily basis the prevailing value of ICE gasoil futures at 16:30 Singapore time. Platts assessments reflect the tradable and repeatable value of gasoil futures for the front 36 months exactly at that time. Platts uses all information available to assess outright futures prices at 16:30 Singapore time, including both outright price and time spread information. Further to this, Platts reporters look at current market trends in the immediate period before and after 16:30. This is to ensure that the Platts assessment reflects a prevailing and representative value at 16:30 rather than an unusual trade occurring at that time or earlier. This is of critical importance when liquidity is reduced.

The 16:30 Singapore time futures assessments are evaluated at this time to ensure that gasoil futures or those assessments linked to futures values are in line with all other timestamps across Platts crude and refined products assessments. The gasoil contract traded on the ICE platform settles at a different time.

Platts 16:30 assessments of gasoil futures are incorporated into the gasoil frontline derivative calculations.

**Gasoil frontline futures derivatives:** These are calendar month gasoil derivatives that settle using the ICE Gasoil futures contract. The derivative is financially settled using the closing price on each day of the month, for whichever futures contract is most prompt on each day. Daily gasoil frontline derivatives are calculated using mean adjusted values for the number of trading days that each futures contract spends as the front-month. This is done by calculating the exact number of trading days within each month, which will vary according to the calendar month.

Platts publishes the front 36 months, four quarters and three years of frontline gasoil derivatives in Asia.

**ICE Gasoil/Singapore 10 ppm Gasoil EFS (Exchange of Futures for Swaps):** This enables holders of a FOB Singapore Gasoil derivative, converted into \$/mt using a conversion rate of 7.45, for an ICE Gasoil futures contract plus a differential. Platts publishes 12 forward months and three quarters for this forward curve.

**ICE Gasoil/Singapore 10 ppm Gasoil ESS (Exchange of Swaps for Swaps):** This enables holders of a FOB Singapore Gasoil derivative, converted into \$/mt using a conversion rate of 7.45, for an ICE Gasoil Frontline derivative position plus a differential. Platts publishes 12 forward months and three quarters for this forward curve.

From October 3, 2016, Platts began publishing Balance-month, Month 1 and Month 2 assessments for MOPAG Gasoil derivatives. These derivatives settle against Platts MOPAG gasoil netback assessments as published in the Platts Asia-Pacific/Arab Gulf Marketscan.

With effect from January 2, 2018 Platts amended the maximum sulfur content specified for the flagship Singapore Gasoil assessment to 10 ppm from the earlier 0.05% (500 ppm). At the same time, Platts lowered the maximum sulfur specification of its flagship Arab Gulf Gasoil netback assessment to 10 ppm. The lower sulfur specifications reflect changing supply and demand trends across the regions.

**Fuel oil derivatives:** Singapore high sulfur 180 centistoke fuel oil derivatives and high sulfur 380 CST fuel oil derivatives are settled against the FOB Singapore 180 CST and FOB Singapore 380 CST fuel oil assessments respectively as published in the Platts Asia-Pacific/Arab Gulf Marketscan. The 180 CST and 380 CST fuel oil derivatives typically trade in 5 cents/mt increments. The Singapore fuel oil paper assessments reflect paper transactions of a minimum of 5,000 mt. Platts publishes

derivatives assessments for balance month, 12 subsequent months, inter-month spreads and four quarters from the month of publication for both 180 CST HSFO and 380 CST HSFO. Platts also assesses the 180 CST/380 CST viscosity derivatives. These settle against the difference between the FOB Singapore 180 CST and 380 CST fuel oil assessments. Platts publishes assessments for the front 12 months and four quarters.

The MOPAG 380 CST HSFO derivatives settle against Platts MOPAG 380 CST HSFO netback assessments as published in the Platts Asia-Pacific/Arab Gulf Marketscan. Platts publishes balance month, Month 1 and Month 2 assessments for MOPAG 380 CST HSFO derivatives.

The MOPAG 180 CST HSFO derivatives assessed at the 1730 Singapore close settle against Platts MOPAG 180 CST HSFO netback assessments as published in the Platts Asia-Pacific/Arab Gulf Marketscan. Platts publishes balance month, Month 1 and Month 2 assessments for MOPAG 380 CST HSFO derivatives.

On June 1, 2020, Platts discontinued publishing MOPAG 180 CST HSFO derivatives at the 1630 Singapore close.

**Marine Fuel 0.5% derivatives:** Platts assesses financially settled derivatives contracts that settle against its physical Marine Fuel 0.5% assessments in Asia and the Middle East. The metric ton-to-barrel conversion factor for the derivatives contracts is 6.35 -- in line with the conversion factor for Platts physical Marine Fuel 0.5% assessments and with the prevailing qualities of fuel oil.

Singapore Marine Fuel 0.5% derivatives settle against the FOB Singapore Marine Fuel 0.5% assessments as published in the Platts Asia-Pacific/Arab Gulf Marketscan. Platts publishes derivatives assessments for balance month, 12 subsequent months, inter-month spreads and four quarters from the month of publication. In addition, Platts publishes a MOPS strip for Marine Fuel 0.5% as well as a FOB Singapore Marine Fuel 0.5% differential to the strip.

Fujairah Marine Fuel 0.5% derivatives settle against the FOB Fujairah Marine Fuel 0.5% assessments as published in the Platts Asia-Pacific/Arab Gulf Marketscan. Platts publishes derivatives assessments for balance month and two subsequent months. In addition, Platts publishes a MOPFUJ strip for Marine Fuel 0.5% as well as a FOB Fujairah Marine Fuel 0.5% differential to the strip.

3.5% FOB Rotterdam barge derivatives at 16:30 Singapore time: This fuel oil derivatives are priced against the 3.5% FOB Rotterdam barges as published in Platts European Marketscan. The fuel oil derivatives are assessed as dollars per metric ton. The derivative assessment contains the flat price value of the derivative as of 16:30 Singapore time for 12 forward months.

**East-West fuel oil derivatives assessments:** East-West fuel oil derivatives assessments are differentials between FOB Singapore 180 CST derivatives and 3.5% FOB Rotterdam barges at 16:30 Singapore time. Platts publishes East-West fuel oil derivatives assessments for 12 forward months.

**EUROPE: CRUDE OIL**

	ICE Brent Futures	Brent Frontline Derivs	Brent DFL Derivs	Brent CFD Derivs	Urals Med CFD Derivs	Urals NWE CFD Derivs	CPC Blend CFDs	Dubai Frontline London Derivs	NYMEX WTI Futures at 1630 London	WTI Frontline London Derivs	WTI-Brent London Derivs	Brent-Dubai London EFS	NYMEX WTI-ICE Brent Spread London	Dated Brent Derivs	Brent-Dubai London ESS	Brent-Dubai EFS
CURRENCY	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$
UOM	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels
SETTLEMENT - BASIS NAME		Brent Futures - Settlement	-	-	-	-	-	Platts Dubai	-	WTI Futures Settlement	-	-	-	-	-	-
SETTLEMENT - BASIS CODE		XILL001	-	-	-	-	-	PCAAT00	-	AAWS001	-	-	-	-	-	-
Week 1	-	-	-	PCAKA00	-	-	-	-	-	-	-	-	-	AAJNV00	-	-
Week 2	-	-	-	PCAKC00	-	-	-	-	-	-	-	-	-	AAJOS00	-	-
Week 3	-	-	-	PCAKE00	-	-	-	-	-	-	-	-	-	AAJOU00	-	-
Week 4	-	-	-	PCAKG00	-	-	-	-	-	-	-	-	-	AAJOW00	-	-
Week 5	-	-	-	AAGLU00	-	-	-	-	-	-	-	-	-	AAJPC00	-	-
Week 6	-	-	-	AAGLV00	-	-	-	-	-	-	-	-	-	AAJPE00	-	-
Week 7	-	-	-	AALCZ00	-	-	-	-	-	-	-	-	-	AALAW00	-	-
Week 8	-	-	-	AALDA00	-	-	-	-	-	-	-	-	-	AALAX00	-	-
Bal Month	-	ABWGA00	ABWFZ00	-	-	-	-	DFLLB00	-	WTFLB00	ABWGB00	-	-	BDLBM00	-	-
M1	AAYES00	AAPQE00	AAEAA00	-	AAMDU00	UNCM001	AAOFX00	DFLL001	AASCR00	WTFLO01	AAEAW00	AAEBS00	AAIWM01	BDLM001	BDLE001	AAEBS00
M2	AAYET00	AAPQF00	AAEAB00	-	AAMEA00	UNCM002	AAOFY00	DFLL002	AASCS00	WTFLO02	AAEAX00	AAEBT00	AAIWM02	BDLM002	BDLE002	AAEBT00
M3	AAXZY00	AAPQG00	AAEAC00	-	UNCM003	UNCM003	AAOFZ00	DFLL003	AATWM03	WTFLO03	AAEAY00	-	AAIWM03	BDLM003	BDLE003	-
M4	AAYAM00	AAPQH00	AAEAD00	-	-	-	-	DFLL004	AATWM04	WTFLO04	AAJNG00	-	AAIWM04	BDLM004	BDLE004	-
M5	AABRM05	AAPQI00	AAEAE00	-	-	-	-	DFLL005	AATWM05	WTFLO05	WBLM005	-	AAIWM05	BDLM005	BDLE005	-
M6	AABRM06	AAPTU00	AAEAF00	-	-	-	-	DFLL006	AATWM06	WTFLO06	WBLM006	-	AAIWM06	BDLM006	BDLE006	-
M7	AABRM07	BFSM007	ABABM07	-	-	-	-	DFLL007	AATWM07	WTFLO07	WBLM007	-	AAIWM07	BDLM007	BDLE007	-
M8	AABRM08	BFSM008	ABABM08	-	-	-	-	DFLL008	AATWM08	WTFLO08	WBLM008	-	AAIWM08	BDLM008	BDLE008	-
M9	AABRM09	BFSM009	ABABM09	-	-	-	-	DFLL009	AATWM09	WTFLO09	WBLM009	-	AAIWM09	BDLM009	BDLE009	-
M10	AABRM10	BFSM010	ABABM10	-	-	-	-	DFLL010	AATWM10	WTFLO10	WBLM010	-	AAIWM10	BDLM010	BDLE010	-
M11	AABRM11	BFSM011	ABABM11	-	-	-	-	DFLL011	AATWM11	WTFLO11	WBLM011	-	AAIWM11	BDLM011	BDLE011	-
M12	AABRM12	BFSM012	ABABM12	-	-	-	-	DFLL012	AATWM12	WTFLO12	WBLM012	-	AAIWM12	BDLM012	BDLE012	-
M13	AABRM13	BFSM013	ABABM13	-	-	-	-	DFLL013	AATWM13	WTFLO13	WBLM013	-	AAIWM13	BDLM013	BDLE013	-
M14	AABRM14	BFSM014	ABABM14	-	-	-	-	DFLL014	AATWM14	WTFLO14	WBLM014	-	AAIWM14	BDLM014	BDLE014	-
M15	AABRM15	BFSM015	ABABM15	-	-	-	-	DFLL015	AATWM15	WTFLO15	WBLM015	-	AAIWM15	BDLM015	BDLE015	-
M16	AABRM16	BFSM016	ABABM16	-	-	-	-	DFLL016	AATWM16	WTFLO16	WBLM016	-	AAIWM16	BDLM016	BDLE016	-
M17	AABRM17	BFSM017	ABABM17	-	-	-	-	DFLL017	AATWM17	WTFLO17	WBLM017	-	AAIWM17	BDLM017	BDLE017	-
M18	AABRM18	BFSM018	ABABM18	-	-	-	-	DFLL018	AATWM18	WTFLO18	WBLM018	-	AAIWM18	BDLM018	BDLE018	-
M19	AABRM19	BFSM019	ABABM19	-	-	-	-	DFLL019	AATWM19	WTFLO19	WBLM019	-	AAIWM19	BDLM019	BDLE019	-
M20	AABRM20	BFSM020	ABABM20	-	-	-	-	DFLL020	AATWM20	WTFLO20	WBLM020	-	AAIWM20	BDLM020	BDLE020	-
M21	AABRM21	BFSM021	ABABM21	-	-	-	-	DFLL021	AATWM21	WTFLO21	WBLM021	-	AAIWM21	BDLM021	BDLE021	-
M22	AABRM22	BFSM022	ABABM22	-	-	-	-	DFLL022	AATWM22	WTFLO22	WBLM022	-	AAIWM22	BDLM022	BDLE022	-
M23	AABRM23	BFSM023	ABABM23	-	-	-	-	DFLL023	AATWM23	WTFLO23	WBLM023	-	AAIWM23	BDLM023	BDLE023	-

**EUROPE: CRUDE OIL**

	ICE Brent Futures	Brent Frontline Derivs	Brent DFL Derivs	Brent CFD Derivs	Urals Med CFD Derivs	Urals NWE CFD Derivs	CPC Blend CFDs	Dubai Frontline London Derivs	NYMEX WTI Futures at 1630 London	WTI Frontline London Derivs	WTI-Brent London Derivs	Brent-Dubai London EFS	NYMEX WTI-ICE Brent Spread London	Dated Brent Derivs	Brent-Dubai London ESS	Brent-Dubai EFS
CURRENCY	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$
UOM	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels
SETTLEMENT - BASIS NAME	Brent Futures - Settlement		-	-	-	-	-	Platts Dubai	-	WTI Futures Settlement	-	-	-	-	-	-
SETTLEMENT - BASIS CODE	XILL001	-	-	-	-	-	-	PCAA00	-	AAWS001	-	-	-	-	-	-
M24	AABRM24	BFSM024	ABABM24	-	-	-	-	DFLL024	AATWM24	WTFLO24	WBLM024	-	AAIWM24	BDLBM24	BDLE024	-
M25	AABRM25	BFSM025	ABABM25	-	-	-	-	DFLL025	AATWM25	WTFLO25	WBLM025	-	AAIWM25	BDLBM25	BDLE025	-
M26	AABRM26	BFSM026	ABABM26	-	-	-	-	DFLL026	AATWM26	WTFLO26	WBLM026	-	AAIWM26	BDLBM26	BDLE026	-
M27	AABRM27	BFSM027	ABABM27	-	-	-	-	DFLL027	AATWM27	WTFLO27	WBLM027	-	AAIWM27	BDLBM27	BDLE027	-
M28	AABRM28	BFSM028	ABABM28	-	-	-	-	DFLL028	AATWM28	WTFLO28	WBLM028	-	AAIWM28	BDLBM28	BDLE028	-
M29	AABRM29	BFSM029	ABABM29	-	-	-	-	DFLL029	AATWM29	WTFLO29	WBLM029	-	AAIWM29	BDLBM29	BDLE029	-
M30	AABRM30	BFSM030	ABABM30	-	-	-	-	DFLL030	AATWM30	WTFLO30	WBLM030	-	AAIWM30	BDLBM30	BDLE030	-
M31	AABRM31	BFSM031	ABABM31	-	-	-	-	DFLL031	AATWM31	WTFLO31	WBLM031	-	AAIWM31	BDLBM31	BDLE031	-
M32	AABRM32	BFSM032	ABABM32	-	-	-	-	DFLL032	AATWM32	WTFLO32	WBLM032	-	AAIWM32	BDLBM32	BDLE032	-
M33	AABRM33	BFSM033	ABABM33	-	-	-	-	DFLL033	AATWM33	WTFLO33	WBLM033	-	AAIWM33	BDLBM33	BDLE033	-
M34	AABRM34	BFSM034	ABABM34	-	-	-	-	DFLL034	AATWM34	WTFLO34	WBLM034	-	AAIWM34	BDLBM34	BDLE034	-
M35	AABRM35	BFSM035	ABABM35	-	-	-	-	DFLL035	AATWM35	WTFLO35	WBLM035	-	AAIWM35	BDLBM35	BDLE035	-
M36	-	BFSM036	ABABM36	-	-	-	-	DFLL036	-	WTFLO36	WBLM036	-	-	BDLBM36	BDLE036	-
Q1	AABRQ01	AAPQJ00	AAEJQ00	-	-	-	-	DFLLQ01	AATWQ01	WTFLO01	AAEJT00	-	AAIWQ01	BDLSQ01	BDLEQ01	-
Q2	AABRQ02	AAPQK00	AAEJR00	-	-	-	-	DFLLQ02	AATWQ02	WTFLO02	AAEJS00	-	AAIWQ02	BDLSQ02	BDLEQ02	-
Q3	AABRQ03	AAPQL00	AAEA000	-	-	-	-	DFLLQ03	AATWQ03	WTFLO03	AAEBC00	-	AAIWQ03	BDLSQ03	BDLEQ03	-
Q4	AABRQ04	AAPQM00	AAEAP00	-	-	-	-	DFLLQ04	AATWQ04	WTFLO04	AAEBD00	-	AAIWQ04	BDLSQ04	BDLEQ04	-
Q5	AABRQ05	AAPQN00	AAEAM00	-	-	-	-	DFLLQ05	AATWQ05	WTFLO05	AAEBA00	-	AAIWQ05	BDLSQ05	BDLEQ05	-
Q6	AABRQ06	AAPQO00	AAEAN00	-	-	-	-	DFLLQ06	AATWQ06	WTFLO06	AAEBB00	-	AAIWQ06	BDLSQ06	BDLEQ06	-
Q7	AABRQ07	BFSLQ07	-	-	-	-	-	DFLLQ07	AATWQ07	WTFLO07	WBLSQ07	-	AAIWQ07	BDLSQ07	BDLEQ07	-
Q8	AABRQ08	BFSLQ08	-	-	-	-	-	DFLLQ08	AATWQ08	WTFLO08	WBLSQ08	-	AAIWQ08	BDLSQ08	BDLEQ08	-
Q9	AABRQ09	BFSLQ09	-	-	-	-	-	DFLLQ09	AATWQ09	WTFLO09	WBLSQ09	-	AAIWQ09	BDLSQ09	BDLEQ09	-
Q10	AABRQ10	BFSLQ10	-	-	-	-	-	DFLLQ10	AATWQ10	WTFLO10	WBLSQ10	-	AAIWQ10	BDLSQ10	BDLEQ10	-
Q11	AABRQ11	BFSLQ11	-	-	-	-	-	DFLLQ11	AATWQ11	WTFLO11	WBLSQ11	-	AAIWQ11	BDLSQ11	BDLEQ11	-
Q12	-	BFSLQ12	-	-	-	-	-	DFLLQ12	-	WTFLO12	WBLSQ12	-	-	BDLSQ12	BDLEQ12	-
YEAR 1	AABRY01	AAPQP00	AAEAQ00	-	-	-	-	DFLLY01	AATWY01	WTFLY01	AAEBE00	-	AAIWY01	BDLSY01	BDLEY01	-
YEAR 2	AABRY02	AAPQQ00	AAEAR00	-	-	-	-	DFLLY02	AATWY02	WTFLY02	AAEBF00	-	AAIWY02	BDLSY02	BDLEY02	-
YEAR 3	AABRY03	AAPQR00	AAEAS00	-	-	-	-	DFLLY03	AATWY03	WTFLY03	AAEBG00	-	AAIWY03	BDLSY03	BDLEY03	-
Q12	-	BFSLQ12	-	-	-	-	-	DFLLQ12	-	WTFLO12	-	-	-	-	-	-
YEAR 1	-	AAPQP00	AAEAQ00	-	-	-	-	DFLLY01	-	WTFLY01	-	-	-	-	-	-
YEAR 2	-	AAPQQ00	AAEAR00	-	-	-	-	DFLLY02	-	WTFLY02	-	-	-	-	-	-
YEAR 3	-	AAPQR00	AAEAS00	-	-	-	-	DFLLY03	-	WTFLY03	-	-	-	-	-	-

**EUROPE: CRUDE OIL (TIME SPREAD)**

	Dubai London Time Spread Derivs	ICE Brent Time Spread	NYMEX WTI London Time Spread	Brent Frontline Time Spread Derivs	WTI London Time Spread Derivs
CURRENCY	US\$	US\$	US\$	US\$	US\$
UOM	Barrels	Barrels	Barrels	Barrels	Barrels
SETTLEMENT BASIS NAME	-	-	-	-	-
SETTLEMENT BASIS CODE	-	-	-	-	-
Week 1	-	-	-	-	-
Week 2	-	-	-	-	-
Week 3	-	-	-	-	-
Week 4	-	-	-	-	-
Week 5	-	-	-	-	-
Week 6	-	-	-	-	-
Week 7	-	-	-	-	-
Week 8	-	-	-	-	-
Bal Month	-	-	-	-	-
M1	AAEBM00	AAM0102	AWM0102	BFS0102	WLT0102
M2	AAEBN00	AAM0203	AWM0203	BFS0203	WLT0203
M3	AAEBO00	AAM0304	AWM0304	BFS0304	WLT0304
M4	AAEBP00	AAM0405	AWM0405	BFS0405	WLT0405
M5	AAEBQ00	AAM0506	AWM0506	BFS0506	WLT0506
M6	AAEBR00	AAM0607	AWM0607	BFS0607	WLT0607
M7	DLT0708	AAM0708	AWM0708	BFS0708	WLT0708
M8	DLT0809	AAM0809	AWM0809	BFS0809	WLT0809
M9	DLT0910	AAM0910	AWM0910	BFS0910	WLT0910
M10	DLT1011	AAM1011	AWM1011	BFS1011	WLT1011
M11	DLT1112	AAM1112	AWM1112	BFS1112	WLT1112
M12	DLT1213	AAM1213	AWM1213	BFS1213	WLT1213
M13	DLT1314	AAM1314	AWM1314	BFS1314	WLT1314
M14	DLT1415	AAM1415	AWM1415	BFS1415	WLT1415
M15	DLT1516	AAM1516	AWM1516	BFS1516	WLT1516
M16	DLT1617	AAM1617	AWM1617	BFS1617	WLT1617
M17	DLT1718	AAM1718	AWM1718	BFS1718	WLT1718
M18	DLT1819	AAM1819	AWM1819	BFS1819	WLT1819
M19	DLT1920	AAM1920	AWM1920	BFS1920	WLT1920
M20	DLT2021	AAM2021	AWM2021	BFS2021	WLT2021
M21	DLT2122	AAM2122	AWM2122	BFS2122	WLT2122
M22	DLT2223	AAM2223	AWM2223	BFS2223	WLT2223
M23	DLT2324	AAM2324	AWM2324	BFS2324	WLT2324
M24	DLT2425	AAM2425	AWM2425	BFS2425	WLT2425

**EUROPE: CRUDE OIL (TIME SPREAD)**

	Dubai London Time Spread Derivs	ICE Brent Time Spread	NYMEX WTI London Time Spread	Brent Frontline Time Spread Derivs	WTI London Time Spread Derivs
CURRENCY	US\$	US\$	US\$	US\$	US\$
UOM	Barrels	Barrels	Barrels	Barrels	Barrels
SETTLEMENT BASIS NAME	-	-	-	-	-
SETTLEMENT BASIS CODE	-	-	-	-	-
M25	DLT2526	AAM2526	AWM2526	BFS2526	WLT2526
M26	DLT2627	AAM2627	AWM2627	BFS2627	WLT2627
M27	DLT2728	AAM2728	AWM2728	BFS2728	WLT2728
M28	DLT2829	AAM2829	AWM2829	BFS2829	WLT2829
M29	DLT2930	AAM2930	AWM2930	BFS2930	WLT2930
M30	DLT3031	AAM3031	AWM3031	BFS3031	WLT3031
M31	DLT3132	AAM3132	AWM3132	BFS3132	WLT3132
M32	DLT3233	AAM3233	AWM3233	BFS3233	WLT3233
M33	DLT3334	AAM3334	AWM3334	BFS3334	WLT3334
M34	DLT3435	AAM3435	AWM3435	BFS3435	WLT3435
M35	DLT3536			BFS3536	WLT3536
M36					
Q1	DLQ0102	AAQ0102	AWQ0102	BTQ0102	WLQ0102
Q2	DLQ0203	AAQ0203	AWQ0203	BTQ0203	WLQ0203
Q3	DLQ0304	AAQ0304	AWQ0304	BTQ0304	WLQ0304
Q4	DLQ0405	AAQ0405	AWQ0405	BTQ0405	WLQ0405
Q5	DLQ0506	AAQ0506	AWQ0506	BTQ0506	WLQ0506
Q6	DLQ0607	AAQ0607	AWQ0607	BTQ0607	WLQ0607
Q7	DLQ0708	AAQ0708	AWQ0708	BTQ0708	WLQ0708
Q8	DLQ0809	AAQ0809	AWQ0809	BTQ0809	WLQ0809
Q9	DLQ0910	AAQ0910	AWQ0910	BTQ0910	WLQ0910
Q10	DLQ1011	AAQ1011	AWQ1011	BTQ1011	WLQ1011
Q11	DLQ1112			BTQ1112	WLQ1112
Q12					
YEAR 1	DLY0102	AAY0102	AWY0102	BTY0102	WLY0102
YEAR 2	DLY0203	AAY0203	AWY0203	BTY0203	WLY0203
YEAR 3					

**EUROPE: REFINED OIL PRODUCTS**

	Propane ARA CIF Large Derivs	Propane NWE CIF vs Naphtha NWE CIF Crg	Naphtha NWE CIF Crg Derivs	Naphtha CFR MORJ vs Naphtha NWE CIF Crg Derivs Spread at London MOC	Gasoline Prem ARA Brg Derivs	Gasoline Eurobob 10ppm ARA FOB Brg Derivs	Gasoline Prem Unleaded 10ppm Med FOB Cargo Derivs	Prem Unleaded 10ppm Med FOB Cargo vs Gasoline Eurobob 10ppm ARA FOB Brg Derivs BalMo	Gasoline Eurobob E10 Non-Oxy FOB AR Barge Derivs
CURRENCY	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$
UOM	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons		Metric Tons
SETTLEMENT BASIS NAME	Propane CIF NWE Large Cargo	Propane CIF NWE Large Cargo /Naphtha CIF NWE Cargo	Naphtha CIF NWE Cargo	Naphtha CIF NWE Cargo	Prem Unleaded 10ppmS FOB ARA	Eurobob Gasoline Barges FOB AR / Premium Gasoline 10PPM Barges FOB AR	Premium gasoline 10 PPM Cargoes FOB Med	Gasoline Prem Unleaded 10ppmS FOB Med Cargo / Gasoline Eurobob FOB ARA Barge	Platts Gasoline Eurobob E10 Barge FOB AR
SETTLEMENT BASIS CODE	PMABA00	PMABA00 /PAAAL00	PAAAL00	PAAAL00	PGABM00	AAQZV00 / PGABM00	AAWZA00	AAWZA00 / AAQZV00	AGEFA00
Bal Month	ABWFX00	ABWFX00	ABWFX00		ABWFT00	ABWFB00	GPWSM00	GPWSD00	AGEAB00
M1	AAHIK00	AAYJA00	PAAAJ00	MANJM01	AAEBW00	ABWFC00	GPWSM01	GPWSD01	AGEAM01
M2	AAHIM00	AAYJB00	AAECO00	MANJM02	AAEBY00	ABWFD00	GPWSM02	GPWSD02	AGEAM02
M3	AAHIO00	AAYJC00	AAECQ00	MANJM03	AAEBZ00	ABWFE00	-		
M4	AAHIQ00	AAYJD00	AAECR00		AAECA00	ABWFF00	-		
M5	-		AAEN005		AAEB005	ABWF005	-		
M6	-		AAEN006		AAEB006	ABWF006	-		
M7	-		AAEN007		AAEB007	ABWF007	-		
M8	-		AAEN008		AAEB008	ABWF008	-		
M9	-		AAEN009		AAEB009	ABWF009	-		
M10	-		AAEN010		AAEB010	ABWF010	-		
M11	-		AAEN011		AAEB011	ABWF011	-		
M12	-		AAEN012		AAEB012	ABWF012	-		
M13	-		-		-	-	-		
M14	-		-		-	-	-		
M15	-		-		-	-	-		
M16	-		-		-	-	-		
M17	-		-		-	-	-		
M18	-		-		-	-	-		
M19	-		-		-	-	-		
M20	-		-		-	-	-		
M21	-		-		-	-	-		
M22	-		-		-	-	-		
M23	-		-		-	-	-		
M24	-		-		-	-	-		
M25	-		-		-	-	-		

**EUROPE: REFINED OIL PRODUCTS**

	Propane ARA CIF Large Derivs	Propane NWE CIF vs Naphtha NWE CIF Crg	Naphtha NWE CIF Crg Derivs	Naphtha CFR MORJ vs Naphtha NWE CIF Crg Derivs Spread at London MOC	Gasoline Prem ARA Brg Derivs	Gasoline Eurobob 10ppm ARA FOB Brg Derivs	Gasoline Prem Unleaded 10ppm Med FOB Cargo Derivs	Prem Unleaded 10ppm Med FOB Cargo vs Gasoline Eurobob 10ppm ARA FOB Brg Derivs BalMo	Gasoline Eurobob E10 Non-Oxy FOB AR Barge Derivs
CURRENCY	US\$	US\$	US\$	US\$	US\$	US\$	US\$		US\$
UOM	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons		Metric Tons
SETTLEMENT BASIS NAME	Propane CIF NWE Large Cargo	Propane CIF NWE Large Cargo /Naphtha CIF NWE Cargo	Naphtha CIF NWE Cargo	Naphtha CIF NWE Cargo	Prem Unleaded 10ppmS FOB ARA	Eurobob Gasoline Barges FOB AR / Premium Gasoline 10PPM Barges FOB AR	Premium gasoline 10 PPM Cargoes FOB Med	Gasoline Prem Unleaded 10ppmS FOB Med Cargo / Gasoline Eurobob FOB ARA Barge	Platts Gasoline Eurobob E10 Barge FOB AR
SETTLEMENT BASIS CODE	PMABA00	PMABA00 /PAAAL00	PAAAL00	PAAAL00	PGABM00	AAQZV00 / PGABM00	AAWZA00	AAWZA00 / AAQZV00	AGEFA00
M26	-		-		-	-	-		
M27	-		-		-	-	-		
M28	-		-		-	-	-		
M29	-		-		-	-	-		
M30	-		-		-	-	-		
M31	-		-		-	-	-		
M32	-		-		-	-	-		
M33	-		-		-	-	-		
M34	-		-		-	-	-		
M35	-		-		-	-	-		
M36	-		-		-	-	-		
Q1	AAHIL00	AAyje00	AAECs00		AAECB00	ABWFG00	-		
Q2	AAHIN00	AAyJF00	AAECU00		AAECC00	ABWFH00	-		
Q3	AAHIP00	AAyJG00	AAECV00		AAECD00	ABWFI00	-		
Q4	AAHIR00	AAyJH00	AAECW00		AAECE00	ABWFJ00	-		
Q5	-		-		-	-	-		
Q6	-		-		-	-	-		
Q7	-		-		-	-	-		
Q8	-		-		-	-	-		
Q9	-		-		-	-	-		
Q10	-		-		-	-	-		
Q11	-		-		-	-	-		
Q12	-		-		-	-	-		
YEAR 1	-		AAENY01		AAEBY01	ABWfy01	-		
YEAR 2	-		-		-	-	-		
YEAR 3	-		-		-	-	-		



**EUROPE: REFINED OIL PRODUCTS**

	ICE LS Gasoil at London MOC	LS Gasoil Frontline	ULSD 10ppmS FOB ARA Barge vs LS Gasoil Frontline	ULSD 10ppmS FOB ARA Barge	ULSD 10ppmS CIF NWE Cargo vs LS Gasoil Frontline	ULSD 10ppmS CIF NWE Cargo	ULSD 10ppmS CIF Med Cargo vs LS Gasoil Frontline	ULSD 10ppmS CIF Med Cargo	ULSD 10ppmS CIF Med Cargo vs CIF NWE Cargo
CURRENCY	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$
UOM	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons
SETTLEMENT BASIS NAME	-	-	-	ULSD 10ppmS FOB ARA Barge	-	ULSD 10ppmS CIF NWE Cargo	-	ULSD 10ppmS CIF Med Cargo	-
SETTLEMENT BASIS CODE	-	-	-	AAJUS00	-	AAVBG00	-	AAWYZ00	-
Bal Month		ABWAO00	ABWEM00	ABWEA00	ABWDY00	ABWDM00	ABWDK00	ABWCY00	ABWFA00
M1	AARIN00	AAPQS00	AAPRD00	ABWEB00	AAXAL00	ABWDN00	AAPEF00	ABWCZ00	AAPGB00
M2	AARIO00	AAPQT00	AAPRE00	ABWEC00	AAXAM00	ABWDO00	AAPEG00	ABWDA00	AAPGC00
M3	AARIP00	AAPQU00	AAPRF00	ABWED00	AAXAN00	ABWDP00	AAPEH00	ABWDB00	AAPGD00
M4	AARIP04	AAPQV00	AAPRG00	ABWEE00	AAXAO00	ABWDQ00	AAPEI00	ABWDC00	AAPGE00
M5	AARIP05	AAPTV00	AAPRH00	ABWEF00	AAXAP00	ABWDR00	AAPER00	ABWDD00	AAPGF00
M6	AARIP06	AAPTW00	AAPRI00	ABWEG00	AAXAQ00	ABWDS00	AAPE00	ABWDE00	AAPGG00
M7	AARIP07	AAPQ007	AAPR007	ABWE007	AAXL007	ABWD007	AAPE007	ABWH007	AAPG007
M8	AARIP08	AAPQ008	AAPR008	ABWE008	AAXL008	ABWD008	AAPE008	ABWH008	AAPG008
M9	AARIP09	AAPQ009	AAPR009	ABWE009	AAXL009	ABWD009	AAPE009	ABWH009	AAPG009
M10	AARIP10	AAPQ010	AAPR010	ABWE010	AAXL010	ABWD010	AAPE010	ABWH010	AAPG010
M11	AARIP11	AAPQ011	AAPR011	ABWE011	AAXL011	ABWD011	AAPE011	ABWH011	AAPG011
M12	AARIP12	AAPQ012	AAPR012	ABWE012	AAXL012	ABWD012	AAPE012	ABWH012	AAPG012
M13	AARIP13	AAPQ013	AAPR013	ABWE013	AAXL013	ABWD013	AAPE013	ABWH013	AAPG013
M14	AARIP14	AAPQ014	AAPR014	ABWE014	AAXL014	ABWD014	AAPE014	ABWH014	AAPG014
M15	AARIP15	AAPQ015	AAPR015	ABWE015	AAXL015	ABWD015	AAPE015	ABWH015	AAPG015
M16	AARIP16	AAPQ016	AAPR016	ABWE016	AAXL016	ABWD016	AAPE016	ABWH016	AAPG016
M17	AARIP17	AAPQ017	AAPR017	ABWE017	AAXL017	ABWD017	AAPE017	ABWH017	AAPG017
M18	AARIP18	AAPQ018	AAPR018	ABWE018	AAXL018	ABWD018	AAPE018	ABWH018	AAPG018
M19	AARIP19	AAPQ019	AAPR019	ABWE019	AAXL019	ABWD019	AAPE019	ABWH019	AAPG019
M20	AARIP20	AAPQ020	AAPR020	ABWE020	AAXL020	ABWD020	AAPE020	ABWH020	AAPG020
M21	AARIP21	AAPQ021	AAPR021	ABWE021	AAXL021	ABWD021	AAPE021	ABWH021	AAPG021
M22	AARIP22	AAPQ022	AAPR022	ABWE022	AAXL022	ABWD022	AAPE022	ABWH022	AAPG022
M23	AARIP23	AAPQ023	AAPR023	ABWE023	AAXL023	ABWD023	AAPE023	ABWH023	AAPG023
M24	AARIP24	AAPQ024	AAPR024	ABWE024	AAXL024	ABWD024	AAPE024	ABWH024	AAPG024
M25	AARIP25	AAPQ025							
M26	AARIP26	AAPQ026							
M27	AARIP27	AAPQ027							
M28	AARIP28	AAPQ028							
M29	AARIP29	AAPQ029							

**EUROPE: REFINED OIL PRODUCTS**

	ICE LS Gasoil at London MOC	LS Gasoil Frontline	ULSD 10ppmS FOB ARA Barge vs LS Gasoil Frontline	ULSD 10ppmS FOB ARA Barge	ULSD 10ppmS CIF NWE Cargo vs LS Gasoil Frontline	ULSD 10ppmS CIF NWE Cargo	ULSD 10ppmS CIF Med Cargo vs LS Gasoil Frontline	ULSD 10ppmS CIF Med Cargo	ULSD 10ppmS CIF Med Cargo vs CIF NWE Cargo
CURRENCY	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$
UOM	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons
SETTLEMENT BASIS NAME	-	-	-	ULSD 10ppmS FOB ARA Barge	-	ULSD 10ppmS CIF NWE Cargo	-	ULSD 10ppmS CIF Med Cargo	-
SETTLEMENT BASIS CODE	-	-	-	AAJUS00	-	AAVBG00	-	AAWYZ00	-
M30	AARIP30	AAPQ030							
M31	AARIP31	AAPQ031							
M32	AARIP32	AAPQ032							
M33	AARIP33	AAPQ033							
M34	AARIP34	AAPQ034							
M35	AARIP35	AAPQ035							
M36	AARIP36	AAPQ036							
Q1	AARIQ01	AAPQW00	AAPRJ00	ABWEH00	AAXAR00	ABWDT00	AAPEZ00	ABWDF00	AAPGH00
Q2	AARIQ02	AAPQX00	AAPRK00	ABWEI00	AAXAS00	ABWDU00	AAPFA00	ABWDG00	AAPGI00
Q3	AARIQ03	AAPQY00	AAPRL00	ABWEJ00	AAXAT00	ABWDV00	AAPFB00	ABWDH00	AAPGJ00
Q4	AARIQ04	AAPQZ00	AAPRM00	ABWEK00	AAXAU00	ABWDW00	AAPFC00	ABWDI00	AAPGK00
Q5	AARIQ05	AAPQ005	AAPRQ05	ABWEQ05	AAXLQ05	ABWDQ05	AAPEQ05	AAPFQ05	AAPGQ05
Q6	AARIQ06	AAPQ006	AAPRQ06	ABWEQ06	AAXLQ06	ABWDQ06	AAPEQ06	AAPFQ06	AAPGQ06
Q7	AARIQ07	AAPQ007	AAPRQ07	ABWEQ07	AAXLQ07	ABWDQ07	AAPEQ07	AAPFQ07	AAPGQ07
Q8	AARIQ08	AAPQ008	AAPRQ08	ABWEQ08	AAXLQ08	ABWDQ08	AAPEQ08	AAPFQ08	AAPGQ08
Q9	AARIQ09	AAPQ009							
Q10	AARIQ10	AAPQ010							
Q11	AARIQ11	AAPQ011							
Q12	AARIQ12	AAPQ012							
YEAR 1	AARKY01	AAPRB00	AAXMW00	ABWEL00	AAXAV00	ABWDX00	AAPFD00	ABWDJ00	AAPGL00
YEAR 2	AARKY02	AAPRC00	AAPRY02	ABWEY02	AAXLY02	ABWDY02	AAPEY02	ABWHY02	AAPGY02
YEAR 3	AARKY03	AAPRS00							

**EUROPE: REFINED OIL PRODUCTS**

	Jet CIF NWE Cargo vs LS Gasoil Frontline	Jet CIF NWE Cargo	Jet FOB Rdam Barge vs LS Gasoil Frontline	Jet FOB Rdam Barge	Jet FOB Rdam Barge vs Jet CIF NWE Cargo	Jet FOB Rdam vs ULSD 10ppm FOB ARA Barge
CURRENCY	US\$	US\$	US\$	US\$	US\$	US\$
UOM	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons
SETTLEMENT BASIS NAME	-	Jet CIF NWE Cargo	-	Jet FOB FARAG Barge	-	-
SETTLEMENT BASIS CODE	-	PJAAU00	-	PJABA00	-	-
Bal Month	ABWCW00	ABWCI00	AAXTH00	AAXUH00	AAXWH00	AAXXH00
M1	AAEDH00	ABWCJ00	AAXTM01	AAXUM01	AAXWM01	AAXXM01
M2	AAEDI00	ABWCK00	AAXTM02	AAXUM02	AAXWM02	AAXXM02
M3	AAEDJ00	ABWCL00				
M4	AAEDK00	ABWCM00				
M5	AAXMU00	ABWCN00				
M6	AAXMV00	ABWCO00				
M7	AAED007	ABWC007				
M8	AAED008	ABWC008				
M9	AAED009	ABWC009				
M10	AAED010	ABWC010				
M11	AAED011	ABWC011				
M12	AAED012	ABWC012				
M13	AAED013	ABWC013				
M14	AAED014	ABWC014				
M15	AAED015	ABWC015				
M16	AAED016	ABWC016				
M17	AAED017	ABWC017				
M18	AAED018	ABWC018				
M19	AAED019	ABWC019				
M20	AAED020	ABWC020				
M21	AAED021	ABWC021				
M22	AAED022	ABWC022				
M23	AAED023	ABWC023				
M24	AAED024	ABWC024				
M25	AAED025	ABWC025				
M26	AAED026	ABWC026				
M27	AAED027	ABWC027				
M28	AAED028	ABWC028				
M29	AAED029	ABWC029				
M30	AAED030	ABWC030				
M31	AAED031	ABWC031				

**EUROPE: REFINED OIL PRODUCTS**

	Jet CIF NWE Cargo vs LS Gasoil Frontline	Jet CIF NWE Cargo	Jet FOB Rdam Barge vs LS Gasoil Frontline	Jet FOB Rdam Barge	Jet FOB Rdam Barge vs Jet CIF NWE Cargo	Jet FOB Rdam vs ULSD 10ppm FOB ARA Barge
CURRENCY	US\$	US\$	US\$	US\$	US\$	US\$
UOM	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons
SETTLEMENT BASIS NAME	-	Jet CIF NWE Cargo	-	Jet FOB FARAG Barge	-	-
SETTLEMENT BASIS CODE	-	PJAAU00	-	PJABA00	-	-
M32	AAED032	ABWC032				
M33	AAED033	ABWC033				
M34	AAED034	ABWC034				
M35	AAED035	ABWC035				
M36	AAED036	ABWC036				
Q1	AAEDL00	ABWCP00				
Q2	AAEDM00	ABWCQ00				
Q3	AAEDN00	ABWCR00				
Q4	AAED000	ABWCS00				
Q5	AAEDQ05	ABWCQ05				
Q6	AAEDQ06	ABWCQ06				
Q7	AAEDQ07	ABWCQ07				
Q8	AAEDQ08	ABWCQ08				
Q9	AAEDQ09	ABWCQ09				
Q10	AAEDQ10	ABWCQ10				
Q11	AAEDQ11	ABWCQ11				
Q12	AAEDQ12	ABWCQ12				
YEAR 1	AAHFA00	ABWCT00				
YEAR 2	AAHFB00	ABWCU00				
YEAR 3	AAHFC00	ABWCV00				

**EUROPE: REFINED OIL PRODUCTS**

	Gasoil .1%S (1000ppm) FOB ARA Barge vs LS Gasoil Frontline	Gasoil .1%S (1000ppm) FOB ARA Barge	Gasoil 0.1%S CIF NWE Cargo vs LS Gasoil Frontline	Gasoil 0.1%S CIF NWE Cargo	Gasoil .1%S (1000ppm) CIF Med Cargo vs LS Gasoil Frontline	Gasoil .1%S (1000ppm) CIF Med Cargo
CURRENCY	US\$	US\$	US\$	US\$	US\$	US\$
UOM	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons
SETTLEMENT BASIS NAME	-	Gasoil .1%S (1000ppm) FOB ARA Barge	-	Gasoil 0.1%S CIF NWE Cargo	-	Gasoil .1%S (1000ppm) CIF Med Cargo
SETTLEMENT BASIS CODE	-	AAYWT00	-	AAYWS00	-	AAVJJ00
Bal Month	ABWCG00	ABWBT00	ABWBR00	ABWBF00	ABWAR00	ABWAS00
M1	AAYEZ00	ABWBU00	AA YFP00	ABWBG00	AAXAA00	ABWAT00
M2	AA YFA00	ABWBV00	AA YFQ00	ABWBH00	AAXAB00	ABWAU00
M3	AA YFB00	ABWBW00	AA YFR00	ABWBI00	AAXAC00	ABWAV00
M4	AA YFC00	ABWBX00	AA YFS00	ABWBJ00	AAXAD00	ABWAW00
M5	AAXMR00	ABWBY00	AA YFT00	ABWBK00	AAXAE00	ABWAX00
M6	AAXMS00	ABWBZ00	AA YFU00	ABWBL00	AAXAF00	ABWAY00
M7	AA YE007	ABWB007	AA YS007	ABWB007	AAXA007	ABWA007
M8	AA YE008	ABWB008	AA YS008	ABWB008	AAXA008	ABWA008
M9	AA YE009	ABWB009	AA YS009	ABWB009	AAXA009	ABWA009
M10	AA YE010	ABWB010	AA YS010	ABWB010	AAXA010	ABWA010
M11	AA YE011	ABWB011	AA YS011	ABWB011	AAXA011	ABWA011
M12	AA YE012	ABWB012	AA YS012	ABWB012	AAXA012	ABWA012
M13	AA YE013	ABWB013	AA YS013	ABWB013	AAXA013	ABWA013
M14	AA YE014	ABWB014	AA YS014	ABWB014	AAXA014	ABWA014
M15	AA YE015	ABWB015	AA YS015	ABWB015	AAXA015	ABWA015
M16	AA YE016	ABWB016	AA YS016	ABWB016	AAXA016	ABWA016
M17	AA YE017	ABWB017	AA YS017	ABWB017	AAXA017	ABWA017
M18	AA YE018	ABWB018	AA YS018	ABWB018	AAXA018	ABWA018
M19	AA YE019	ABWB019	AA YS019	ABWB019	AAXA019	ABWA019
M20	AA YE020	ABWB020	AA YS020	ABWB020	AAXA020	ABWA020
M21	AA YE021	ABWB021	AA YS021	ABWB021	AAXA021	ABWA021
M22	AA YE022	ABWB022	AA YS022	ABWB022	AAXA022	ABWA022
M23	AA YE023	ABWB023	AA YS023	ABWB023	AAXA023	ABWA023
M24	AA YE024	ABWB024	AA YS024	ABWB024	AAXA024	ABWA024
M25						
M26						
M27						
M28						
M29						
M30						

**EUROPE: REFINED OIL PRODUCTS**

	Gasoil .1%S (1000ppm) FOB ARA Barge vs LS Gasoil Frontline	Gasoil .1%S (1000ppm) FOB ARA Barge	Gasoil 0.1%S CIF NWE Cargo vs LS Gasoil Frontline	Gasoil 0.1%S CIF NWE Cargo	Gasoil .1%S (1000ppm) CIF Med Cargo vs LS Gasoil Frontline	Gasoil .1%S (1000ppm) CIF Med Cargo
CURRENCY	US\$	US\$	US\$	US\$	US\$	US\$
UOM	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons
SETTLEMENT BASIS NAME	-	Gasoil .1%S (1000ppm) FOB ARA Barge	-	Gasoil 0.1%S CIF NWE Cargo	-	Gasoil .1%S (1000ppm) CIF Med Cargo
SETTLEMENT BASIS CODE	-	AAYWT00	-	AAYWS00	-	AAVJJ00
M31						
M32						
M33						
M34						
M35						
M36						
Q1	AAYFD00	ABWCA00	AAYFV00	ABWBM00	AAXAG00	ABWAZ00
Q2	AAYFE00	ABWCB00	AAYFW00	ABWBN00	AAXAH00	ABWBA00
Q3	AAYFF00	ABWCC00	AAYFX00	ABWB000	AAXAI00	ABWBB00
Q4	AAYFG00	ABWCD00	AAYFY00	ABWBP00	AAXAJ00	ABWBC00
Q5	AAAYEQ05	ABWUQ05	AAYSQ05	ABWBQ05	AAXAQ05	ABWBQ05
Q6	AAAYEQ06	ABWUQ06	AAYSQ06	ABWBQ06	AAXAQ06	ABWBQ06
Q7	AAAYEQ07	ABWUQ07	AAYSQ07	ABWBQ07	AAXAQ07	ABWBQ07
Q8	AAAYEQ08	ABWUQ08	AAYSQ08	ABWBQ08	AAXAQ08	ABWBQ08
Q9						
Q10						
Q11						
Q12						
YEAR 1	AAXMT00	ABWCE00	AAXMX00	ABWBQ00	AAXAK00	ABWBD00
YEAR 2	AARCU00	ABWCF00	AAYSY02	ABWBY02	AAXAY02	ABWBY02
YEAR 3						

**EUROPE: REFINED OIL PRODUCTS**

	FO 3.5%S Rotterdam FOB Brg Derivs	FO 3.5%S Med FOB Crg Derivs	London MOC East-West Fuel Oil (180 CST-3.5% FOB Rotterdam Barge)	FO 1%S NWE FOB Crg Derivs	FO 1%S Rotterdam Brg Derivs	FO 1%S ARA Brg vs Crg Diff Derivs	FO 3.5%S Rotterdam vs Med Diff Derivs	FO 1%S NWE FOB vs FO 3.5%S Brg Hilo Diff Derivs	FO 380 CST Cargo FOB Spore Crg-3.5% FOB Rotterdam Barge Derivs East West London MOC	FO 180 CST FOB Spore Crg Derivs London MOC	FO 380 CST FOB Spore Crg Derivs London MOC	London MOC East-West Fuel Oil (180 CST-3.5% FOB Rotterdam Barge)	0.5% FOB Rotterdam Marine Fuel barge derivs	0.5% vs. 3.5% FOB Rotterdam barge derivs
CURRENCY	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$
UOM	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons
SETTLEMENT BASIS NAME	FO 3.5%S FOB Rdam Barge	FO 3.5%S FOB Med Cargo	FO 3.5%S FOB Rdam Barge	FO 1%S FOB NWE Cargo	FO 1%S FOB Rdam Barge	FO 3.5%S FOB Rdam Barge	FO 3.5%S FOB Rdam Barge	FO 1%S FOB Rdam Barge	PPXDK00	PUADV00	PPXDK00	PUADV00	0.5% FOB Rotterdam Marine Fuel barge	0.5% vs. 3.5% FOB Rotterdam barge
SETTLEMENT BASIS CODE	PUABC00	PAAZ00	PUADV00 and PUABC00	PAAAM00	PAAAP00	PUABC00	PUABC00	PAAAP00	FO 380 CST 3.5% S FOB Spore Cargo	FO 180 CST 3.5% S FOB Spore Cargo	FO 380 CST 3.5% S FOB Spore Cargo	FO 180 CST 3.5% S FOB Spore Cargo	PUMFD00	PUMFD00 and PUABC00
Bal Month	ABWAE00	ABWAG00	-	ABWAC00	ABWAA00	ABWAK00	ABWAM00	ABWAI00					AMRAB00	AMRBB00
M1	AAEH00	AAEHK00	F1BDM01	AAEGR00	AALTA00	AALTA01	AAEHK01	AAEGR01	FQLSM01	FOLSM01	FPLSM01	F1BDM01	AMRAM01	AMRBM01
M2	AAEH00	AAEHL00	F1BDM02	AAEGS00	AALTC00	AALTC01	AAEHL01	AAEGS01	FQLSM02	FOLSM02	FPLSM02	F1BDM02	AMRAM02	AMRBM02
M3	AAEH00	AAEHM00	F1BDM03	AAEGT00	AALTF00	AALTF01	AAEHM01	AAEGT01	FQLSM03	FOLSM03	FPLSM03	F1BDM03	AMRAM03	AMRBM03
M4	AAEHE00	AAEHN00	-	AAEGV00	AALTH00	AALTH01	AAEHN01	AAEGV01					AMRAM04	AMRBM04
M5	AAQDD00	AAQDL00	-	AAPZG00	AAQDU00	AAQDU01	AAQDL01	AAPZG01					AMRAM05	AMRBM05
M6	AAQDE00	AAQDM00	-	AAPZH00	AAQDV00	AAQDV01	AAQDM01	AAPZH01					AMRAM06	AMRBM06
M7	AAEH007	AAEK007	-	AAER007	AALT007	AALA007	AAEA007	AAEG007					AMRAM07	AMRBM07
M8	AAEH008	AAEK008	-	AAER008	AALT008	AALA008	AAEA008	AAEG008					AMRAM08	AMRBM08
M9	AAEH009	AAEK009	-	AAER009	AALT009	AALA009	AAEA009	AAEG009					AMRAM09	AMRBM09
M10	AAEH010	AAEK010	-	AAER010	AALT010	AALA010	AAEA010	AAEG010					AMRAM10	AMRBM10
M11	AAEH011	AAEK011	-	AAER011	AALT011	AALA011	AAEA011	AAEG011					AMRAM11	AMRBM11
M12	AAEH012	AAEK012	-	AAER012	AALT012	AALA012	AAEA012	AAEG012					AMRAM12	AMRBM12
M13	AAEH013	AAEK013	-	AAER013	AALT013	AALA013	AAEA013	AAEG013					AMRAM13	AMRBM13
M14	AAEH014	AAEK014	-	AAER014	AALT014	AALA014	AAEA014	AAEG014					AMRAM14	AMRBM14
M15	AAEH015	AAEK015	-	AAER015	AALT015	AALA015	AAEA015	AAEG015					AMRAM15	AMRBM15
M16	AAEH016	AAEK016	-	AAER016	AALT016	AALA016	AAEA016	AAEG016					AMRAM16	AMRBM16
M17	AAEH017	AAEK017	-	AAER017	AALT017	AALA017	AAEA017	AAEG017					AMRAM17	AMRBM17
M18	AAEH018	AAEK018	-	AAER018	AALT018	AALA018	AAEA018	AAEG018					AMRAM18	AMRBM18
M19	AAEH019	AAEK019	-	AAER019	AALT019	AALA019	AAEA019	AAEG019					AMRAM19	AMRBM19
M20	AAEH020	AAEK020	-	AAER020	AALT020	AALA020	AAEA020	AAEG020					AMRAM20	AMRBM20
M21	AAEH021	AAEK021	-	AAER021	AALT021	AALA021	AAEA021	AAEG021					AMRAM21	AMRBM21
M22	AAEH022	AAEK022	-	AAER022	AALT022	AALA022	AAEA022	AAEG022					AMRAM22	AMRBM22
M23	AAEH023	AAEK023	-	AAER023	AALT023	AALA023	AAEA023	AAEG023					AMRAM23	AMRBM23
M24	AAEH024	AAEK024	-	AAER024	AALT024	AALA024	AAEA024	AAEG024					AMRAM24	AMRBM24
M25	AAEH025	-	-	AAER025	-			AAEG025					-	-

**EUROPE: REFINED OIL PRODUCTS**

	FO 3.5%S Rotterdam FOB Brg Derivs	FO 3.5%S Med FOB Crg Derivs	London MOC East-West Fuel Oil (180 CST-3.5% FOB Rotterdam Barge)	FO 1%S NWE FOB Crg Derivs	FO 1%S Rotterdam Brg Derivs	FO 1%S ARA Brg vs Crg Diff Derivs	FO 3.5%S Rotterdam vs Med Diff Derivs	FO 1%S NWE FOB vs FO 3.5%S Brg Hilo Diff Derivs	FO 380 CST Cargo FOB Spore Crg-3.5% FOB Rotterdam Barge Derivs East West London MOC	FO 180 CST FOB Spore Crg Derivs London MOC	FO 380 CST FOB Spore Crg Derivs London MOC	London MOC East-West Fuel Oil (180 CST-3.5% FOB Rotterdam Barge)	0.5% FOB Rotterdam Marine Fuel barge derivs	0.5% vs. 3.5% FOB Rotterdam barge derivs
CURRENCY	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$
UOM	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons	Metric Tons
SETTLEMENT BASIS NAME	FO 3.5%S FOB Rdam Barge	FO 3.5%S FOB Med Cargo	FO 3.5%S FOB Rdam Barge	FO 1%S FOB NWE Cargo	FO 1%S FOB Rdam Barge	FO 3.5%S FOB Rdam Barge	FO 3.5%S FOB Rdam Barge	FO 1%S FOB Rdam Barge	PPXDK00	PUADV00	PPXDK00	PUADV00	0.5% FOB Rotterdam Marine Fuel barge	0.5% vs. 3.5% FOB Rotterdam barge
SETTLEMENT BASIS CODE	PUABC00	PAAZ00	PUADV00 and PUABC00	PAAAM00	PUAAP00	PUABC00	PUABC00	PUAAP00	FO 380 CST 3.5% S FOB Spore Cargo	FO 180 CST 3.5% S FOB Spore Cargo	FO 380 CST 3.5% S FOB Spore Cargo	FO 180 CST 3.5% S FOB Spore Cargo	PUMFD00	PUMFD00 and PUABC00
M26	AAEH026	-	-	AAER026	-			AAEG026					-	-
M27	AAEH027	-	-	AAER027	-			AAEG027					-	-
M28	AAEH028	-	-	AAER028	-			AAEG028					-	-
M29	AAEH029	-	-	AAER029	-			AAEG029					-	-
M30	AAEH030	-	-	AAER030	-			AAEG030					-	-
M31	AAEH031	-	-	AAER031	-			AAEG031					-	-
M32	AAEH032	-	-	AAER032	-			AAEG032					-	-
M33	AAEH033	-	-	AAER033	-			AAEG033					-	-
M34	AAEH034	-	-	AAER034	-			AAEG034					-	-
M35	AAEH035	-	-	AAER035	-			AAEG035					-	-
M36	AAEH036	-	-	AAER036	-			AAEG036					-	-
Q1	AAEOR00	AAEH000	-	AAEGW00	AALTJ00	AALTJ01	AAEH001	AAEGW01					AMRAQ01	AMRBQ01
Q2	AAEHG00	AAEHP00	-	AAEQ000	AALTL00	AALTL01	AAEHP01	AAEQ001					AMRAQ02	AMRBQ02
Q3	AAEHH00	AAEHQ00	-	AAEGY00	AALTN00	AALTN01	AAEHQ01	AAEGY01					AMRAQ03	AMRBQ03
Q4	AAEHI00	AAEHR00	-	AAEGZ00	AALTU00	AALTU01	AAEHR01	AAEGZ01					AMRAQ04	AMRBQ04
Q5	AAEHQ05	AAEKQ05	-	AAERQ05	AALTQ05	AALAQ05	AAEAQ05	AAEGQ05					AMRAQ05	AMRBQ05
Q6	AAEHQ06	AAEKQ06	-	AAERQ06	AALTQ06	AALAQ06	AAEAQ06	AAEGQ06					AMRAQ06	AMRBQ06
Q7	AAEHQ07	AAEKQ07	-	AAERQ07	AALTQ07	AALAQ07	AAEAQ07	AAEGQ07					AMRAQ07	AMRBQ07
Q8	AAEHQ08	AAEKQ08	-	AAERQ08	AALTQ08	AALAQ08	AAEAQ08	AAEGQ08					AMRAQ08	AMRBQ08
Q9	AAEHQ09	-	-	AAERQ09	-			AAEGQ09					-	-
Q10	AAEHQ10	-	-	AAERQ10	-			AAEGQ10					-	-
Q11	AAEHQ11	-	-	AAERQ11	-			AAEGQ11					-	-
Q12	AAEHQ12	-	-	AAERQ12	-			AAEGQ12					-	-
YEAR 1	AAEHJ00	AAEHS00	-	AAEHA00	AALTW00		AAEHS01	AAEHA01					AMRAY01	AMRBY01
YEAR 2	AAQDF00	AAQDN00	-	AAPZI00	AAQDW00		AAQDN01	AAPZI01					AMRAY02	AMRBY02
YEAR 3	AAQDG00	-	-	AAPZJ00				AAPZJ01						



**EUROPE: REFINED OIL PRODUCTS (CRACK SPREAD)**

	Naphtha NWE CIF Crg Brent Crk Derivs	Naphtha NWE CIF Crg London WTI Crack Derivs	Naphtha NWE CIF Crg London Dubai Crack Derivs	Gasoline Prem ARA London WTI Crack Derivs	Gasoline Prem ARA Brent Crk Derivs	Gasoline Prem ARA London Dubai Crack Derivs	Gasoline Eurobob 10ppm ARA FOB Brg Brent Crk Derivs	Gasoline Eurobob 10ppm ARA FOB Brg London Dubai Crack Derivs	Gasoline Eurobob 10ppm ARA FOB Brg London WTI Crack Derivs	Gasoline Premium Unleaded 10ppm Mediterranean FOB Cargo Brent Crack Derivs BalMo
CURRENCY	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$
UOM	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels
SETTLEMENT BASIS NAME	-	-	-	-	-	-	-	-	-	-
SETTLEMENT BASIS CODE	-	-	-	-	-	-	-	-	-	-
Bal Month	ABWFW00	NPWTB00	NPCDB00	GPWTB00	ABWFO00	GPADB00	ABWFK00	GEADB00	GEAWB00	AMGCM00
M1	AAECX00	NPWT001	NPCD001	GPWT001	AAECF00	GPAD001	ABWFL00	GEAD001	GEAW001	AMGCM01
M2	AAECY00	NPWT002	NPCD002	GPWT002	AAECG00	GPAD002	ABWFM00	GEAD002	GEAW002	AMGCM02
M3	AAEDA00	NPWT003	NPCD003	GPWT003	AAECH00	GPAD003	ABWFN00	GEAD003	GEAW003	
M4	AAEDB00	NPWT004	NPCD004	GPWT004	AAECI00	GPAD004	ABWF000	GEAD004	GEAW004	
M5	AAEX005	NPWT005	NPCD005	GPWT005	AAEC005	GPAD005	ABWG005	GEAD005	GEAW005	
M6	AAEX006	NPWT006	NPCD006	GPWT006	AAEC006	GPAD006	ABWG006	GEAD006	GEAW006	
M7	AAEX007	NPWT007	NPCD007	GPWT007	AAEC007	GPAD007	ABWG007	GEAD007	GEAW007	
M8	AAEX008	NPWT008	NPCD008	GPWT008	AAEC008	GPAD008	ABWG008	GEAD008	GEAW008	
M9	AAEX009	NPWT009	NPCD009	GPWT009	AAEC009	GPAD009	ABWG009	GEAD009	GEAW009	
M10	AAEX010	NPWT010	NPCD010	GPWT010	AAEC010	GPAD010	ABWG010	GEAD010	GEAW010	
M11	AAEX011	NPWT011	NPCD011	GPWT011	AAEC011	GPAD011	ABWG011	GEAD011	GEAW011	
M12	AAEX012	NPWT012	NPCD012	GPWT012	AAEC012	GPAD012	ABWG012	GEAD012	GEAW012	
M13					-					
M14					-					
M15					-					
M16					-					
M17					-					
M18					-					
M19					-					
M20					-					
M21					-					
M22					-					
M23					-					
M24					-					
M25					-					
M26					-					
M27					-					

**EUROPE: REFINED OIL PRODUCTS (CRACK SPREAD)**

	Naphtha NWE CIF Crg Brent Crk Derivs	Naphtha NWE CIF Crg London WTI Crack Derivs	Naphtha NWE CIF Crg London Dubai Crack Derivs	Gasoline Prem ARA London WTI Crack Derivs	Gasoline Prem ARA Brent Crk Derivs	Gasoline Prem ARA London Dubai Crack Derivs	Gasoline Eurobob 10ppm ARA FOB Brg Brent Crk Derivs	Gasoline Eurobob 10ppm ARA FOB Brg London Dubai Crack Derivs	Gasoline Eurobob 10ppm ARA FOB Brg London WTI Crack Derivs	Gasoline Premium Unleaded 10ppm Mediterranean FOB Cargo Brent Crack Derivs BalMo
CURRENCY	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$
UOM	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels
SETTLEMENT BASIS NAME	-	-	-	-	-	-	-	-	-	-
SETTLEMENT BASIS CODE	-	-	-	-	-	-	-	-	-	-
M28					-					
M29					-					
M30					-					
M31					-					
M32					-					
M33					-					
M34					-					
M35					-					
M36					-					
Q1	AAEDC00	NPWTQ01	NPCDQ01	GPWTQ01	AAECJ00	GPADQ01	ABWFP00	GEADQ01	GEAWQ01	
Q2	AAEDD00	NPWTQ02	NPCDQ02	GPWTQ02	AAECK00	GPADQ02	ABWFO00	GEADQ02	GEAWQ02	
Q3	AAEDE00	NPWTQ03	NPCDQ03	GPWTQ03	AAECL00	GPADQ03	ABWFR00	GEADQ03	GEAWQ03	
Q4	AAEDG00	NPWTQ04	NPCDQ04	GPWTQ04	AAECM00	GPADQ04	ABWFS00	GEADQ04	GEAWQ04	
Q5										
Q6										
Q7										
Q8										
Q9										
Q10										
Q11										
Q12										
YEAR 1		NPWTY01	NPCDY01	GPWTY01		GPADY01	ABWGY01	GEADY01	GEAWY01	
YEAR 2										
YEAR 3										

**EUROPE: REFINED OIL PRODUCTS (CRACK SPREAD)**

	LS Gasoil Frontline Brent Crack	ULSD 10ppmS FOB ARA Barge Brent Crack	ULSD 10ppm CIF NWE Cargo Brent Crack	ULSD 10ppm CIF MED Cargo Brent Crack	Jet CIF NWE Cargo Brent Crack	Jet FOB Rdam Barge Brent Crack	Gasoil .1%S (1000ppm) FOB ARA Barge Brent Crack	Gasoil 0.1%S CIF NWE Cargo Brent Crack	Gasoil .1%S (1000ppm) CIF Med Cargo Brent Crack
CURRENCY	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$
UOM	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels
SETTLEMENT BASIS NAME	-	-	-	-	-	-	-	-	-
SETTLEMENT BASIS CODE	-	-	-	-	-	-	-	-	-
Bal Month	ABWAP00	ABWEN00	ABWDZ00	ABWDL00	ABWCX00	AAXVH00	ABWCH00	ABWBS00	ABWBE00
M1	AAEDP00	AAITY00	AAXAL01	AAPFG00	AATZA00	AAXVM01	AAYFH00	AAYFZ00	AAXAA01
M2	AAEDQ00	AAITZ00	AAXAM01	AAPFH00	AATZB00	AAXVM02	AAYFI00	AAYGA00	AAXAB01
M3	AAEDW00	AAIUA00	AAXAN01	AAPFL00	AATZC00		AAYFJ00	AAYGB00	AAXAC01
M4	AAEDS00	AAIUB00	AAXAO01	AAPFT00	AATZD00		AAYFK00	AAYGC00	AAXAD01
M5	AAXMN00	AAIUC00	AAXAP01	AAPFU00	AAXMU01		AAXMR01	AAYGD00	AAXAE01
M6	AAXMO00	AAIUD00	AAXAQ01	AAPFV00	AAXMV01		AAXMS01	AAYGE00	AAXAF01
M7	AAEP007	AAIQ007	AAXC007	AAPF007	AATZ007		AAYF007	AAYG007	AAXB007
M8	AAEP008	AAIQ008	AAXC008	AAPF008	AATZ008		AAYF008	AAYG008	AAXB008
M9	AAEP009	AAIQ009	AAXC009	AAPF009	AATZ009		AAYF009	AAYG009	AAXB009
M10	AAEP010	AAIQ010	AAXC010	AAPF010	AATZ010		AAYF010	AAYG010	AAXB010
M11	AAEP011	AAIQ011	AAXC011	AAPF011	AATZ011		AAYF011	AAYG011	AAXB011
M12	AAEP012	AAIQ012	AAXC012	AAPF012	AATZ012		AAYF012	AAYG012	AAXB012
M13	AAEP013	AAIQ013	AAXC013	AAPF013	AATZ013		AAYF013	AAYG013	AAXB013
M14	AAEP014	AAIQ014	AAXC014	AAPF014	AATZ014		AAYF014	AAYG014	AAXB014
M15	AAEP015	AAIQ015	AAXC015	AAPF015	AATZ015		AAYF015	AAYG015	AAXB015
M16	AAEP016	AAIQ016	AAXC016	AAPF016	AATZ016		AAYF016	AAYG016	AAXB016
M17	AAEP017	AAIQ017	AAXC017	AAPF017	AATZ017		AAYF017	AAYG017	AAXB017
M18	AAEP018	AAIQ018	AAXC018	AAPF018	AATZ018		AAYF018	AAYG018	AAXB018
M19	AAEP019	AAIQ019	AAXC019	AAPF019	AATZ019		AAYF019	AAYG019	AAXB019
M20	AAEP020	AAIQ020	AAXC020	AAPF020	AATZ020		AAYF020	AAYG020	AAXB020
M21	AAEP021	AAIQ021	AAXC021	AAPF021	AATZ021		AAYF021	AAYG021	AAXB021
M22	AAEP022	AAIQ022	AAXC022	AAPF022	AATZ022		AAYF022	AAYG022	AAXB022
M23	AAEP023	AAIQ023	AAXC023	AAPF023	AATZ023		AAYF023	AAYG023	AAXB023
M24	AAEP024	AAIQ024	AAXC024	AAPF024	AATZ024		AAYF024	AAYG024	AAXB024
M25	AAEP025				AATZ025				
M26	AAEP026				AATZ026				
M27	AAEP027				AATZ027				
M28	AAEP028				AATZ028				
M29	AAEP029				AATZ029				

**EUROPE: REFINED OIL PRODUCTS (CRACK SPREAD)**

	LS Gasoil Frontline Brent Crack	ULSD 10ppmS FOB ARA Barge Brent Crack	ULSD 10ppm CIF NWE Cargo Brent Crack	ULSD 10ppm CIF MED Cargo Brent Crack	Jet CIF NWE Cargo Brent Crack	Jet FOB Rdam Barge Brent Crack	Gasoil .1%S (1000ppm) FOB ARA Barge Brent Crack	Gasoil 0.1%S CIF NWE Cargo Brent Crack	Gasoil .1%S (1000ppm) CIF Med Cargo Brent Crack
CURRENCY	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$
UOM	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels
SETTLEMENT BASIS NAME	-	-	-	-	-	-	-	-	-
SETTLEMENT BASIS CODE	-	-	-	-	-	-	-	-	-
M30	AAEP030				AATZ030				
M31	AAEP031				AATZ031				
M32	AAEP032				AATZ032				
M33	AAEP033				AATZ033				
M34	AAEP034				AATZ034				
M35	AAEP035				AATZ035				
M36	AAEP036				AATZ036				
Q1	AAEDY00	AAYUE00	AAXAR01	AAPFW00	AATZE00		AAYFL00	AAYGF00	AAXAG01
Q2	AAEDZ00	AAYUF00	AAXAS01	AAPFX00	AATZF00		AAYFM00	AAYGG00	AAXAH01
Q3	AAEEA00	AAYUG00	AAXAT01	AAPFY00	AATZG00		AAYFN00	AAYGH00	AAXAI01
Q4	AAEEB00	AAYUH00	AAXAU01	AAPFZ00	AATZH00		AAYFO00	AAYGI00	AAXAJ01
Q5	AAEPQ05	AAYQQ05	AAXCQ05	AAPFQ05	AATZQ05		AAYFQ05	AAYGQ05	AAXBQ05
Q6	AAEPQ06	AAYQQ06	AAXCQ06	AAPFQ06	AATZQ06		AAYFQ06	AAYGQ06	AAXBQ06
Q7	AAEPQ07	AAYQQ07	AAXCQ07	AAPFQ07	AATZQ07		AAYFQ07	AAYGQ07	AAXBQ07
Q8	AAEPQ08	AAYQQ08	AAXCQ08	AAPFQ08	AATZQ08		AAYFQ08	AAYGQ08	AAXBQ08
Q9	AAEPQ09				AATZQ09				
Q10	AAEPQ10				AATZQ10				
Q11	AAEPQ11				AATZQ11				
Q12	AAEPQ12				AATZQ12				
YEAR 1	AAXMP00	AAXMW01	AAXAV01	AAPGA00	AATZI00		AAXMT01	AAXMX01	AAXAK01
YEAR 2	AAXMQ00	AAYQY02	AAXCY02	AAPFY02	AAPRN00		AARCV00	AAYGY02	AAXBY02
YEAR 3	ABWAQ00				AAPRO00				

**EUROPE: REFINED OIL PRODUCTS (CRACK SPREAD)**

	FO 1%S NWE FOB Crg Brent Crk Derivs	FO 3.5%S ARA FOB Brg Brent Crk Derivs	FO 1%S NWE FOB Crg London WTI Crack Derivs	FO 1%S NWE FOB Crg London Dubai Crack Derivs	FO 3.5%S ARA FOB Brg London WTI Crack Derivs	FO 3.5%S ARA FOB Brg London Dubai Crack Derivs	FO 3.5%S Med FOB Crg London WTI Crack Derivs	FO 3.5%S Med FOB Crg London Dubai Crack Swap	FO 1%S ARA Brg London WTI Crack Derivs	FO 1%S ARA Brg London Dubai Crack Derivs	FO 1%S ARA Brg Brent Crk Derivs	FO 3.5%S Med FOB Crg Brent Crk Derivs	0.5% FOB Rotterdam Marine Fuel barge Crk derivs
CURRENCY	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$
UOM	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels
SETTLEMENT BASIS NAME	-	-	-	-	-	-	-	-	-	-	-	-	-
SETTLEMENT BASIS NAME	-	-	-	-	-	-	-	-	-	-	-	-	-
SETTLEMENT BASIS CODE	-	-	-	-	-	-	-	-	-	-	-	-	-
Bal Month	ABWAD00	ABWAF00	FNWTB00	FNCD00	FRWTB00	FRBD00	FMWTB00	FMCD00	FAWTB00	FABDB00	ABWAB00	ABWAH00	AMRCB00
M1	AAUAC00	AATZT00	FNWT001	FNCD001	FRWT001	FRBD001	FMWT001	FMCD001	FAWT001	FABD001	AAVTG00	AAVTP00	AMRCM01
M2	AAUAD00	AATZU00	FNWT002	FNCD002	FRWT002	FRBD002	FMWT002	FMCD002	FAWT002	FABD002	AAVTH00	AAVTQ00	AMRCM02
M3	AAUAE00	AATZV00	FNWT003	FNCD003	FRWT003	FRBD003	FMWT003	FMCD003	FAWT003	FABD003	AAVTI00	AAVTR00	AMRCM03
M4	AAUAF00	AATZW00	FNWT004	FNCD004	FRWT004	FRBD004	FMWT004	FMCD004	FAWT004	FABD004	AAVTJ00	AAVTS00	AMRCM04
M5	AAPZN00	AAQDH00	FNWT005	FNCD005	FRWT005	FRBD005	FMWT005	FMCD005	FAWT005	FABD005	AAQDY00	AAQDP00	AMRCM05
M6	AAQDA00	AAQDI00	FNWT006	FNCD006	FRWT006	FRBD006	FMWT006	FMCD006	FAWT006	FABD006	AAQDZ00	AAQDR00	AMRCM06
M7	AAUA007	AATS007	FNWT007	FNCD007	FRWT007	FRBD007	FMWT007	FMCD007	FAWT007	FABD007	AAVT007	AAVPO07	AMRCM07
M8	AAUA008	AATS008	FNWT008	FNCD008	FRWT008	FRBD008	FMWT008	FMCD008	FAWT008	FABD008	AAVT008	AAVPO08	AMRCM08
M9	AAUA009	AATS009	FNWT009	FNCD009	FRWT009	FRBD009	FMWT009	FMCD009	FAWT009	FABD009	AAVT009	AAVPO09	AMRCM09
M10	AAUA010	AATS010	FNWT010	FNCD010	FRWT010	FRBD010	FMWT010	FMCD010	FAWT010	FABD010	AAVT010	AAVPO10	AMRCM10
M11	AAUA011	AATS011	FNWT011	FNCD011	FRWT011	FRBD011	FMWT011	FMCD011	FAWT011	FABD011	AAVT011	AAVPO11	AMRCM11
M12	AAUA012	AATS012	FNWT012	FNCD012	FRWT012	FRBD012	FMWT012	FMCD012	FAWT012	FABD012	AAVT012	AAVPO12	AMRCM12
M13	AAUA013	AATS013	FNWT013	FNCD013	FRWT013	FRBD013	FMWT013	FMCD013	FAWT013	FABD013	AAVT013	AAVPO13	AMRCM13
M14	AAUA014	AATS014	FNWT014	FNCD014	FRWT014	FRBD014	FMWT014	FMCD014	FAWT014	FABD014	AAVT014	AAVPO14	AMRCM14
M15	AAUA015	AATS015	FNWT015	FNCD015	FRWT015	FRBD015	FMWT015	FMCD015	FAWT015	FABD015	AAVT015	AAVPO15	AMRCM15
M16	AAUA016	AATS016	FNWT016	FNCD016	FRWT016	FRBD016	FMWT016	FMCD016	FAWT016	FABD016	AAVT016	AAVPO16	AMRCM16
M17	AAUA017	AATS017	FNWT017	FNCD017	FRWT017	FRBD017	FMWT017	FMCD017	FAWT017	FABD017	AAVT017	AAVPO17	AMRCM17
M18	AAUA018	AATS018	FNWT018	FNCD018	FRWT018	FRBD018	FMWT018	FMCD018	FAWT018	FABD018	AAVT018	AAVPO18	AMRCM18
M19	AAUA019	AATS019	FNWT019	FNCD019	FRWT019	FRBD019	FMWT019	FMCD019	FAWT019	FABD019	AAVT019	AAVPO19	AMRCM19
M20	AAUA020	AATS020	FNWT020	FNCD020	FRWT020	FRBD020	FMWT020	FMCD020	FAWT020	FABD020	AAVT020	AAVPO20	AMRCM20
M21	AAUA021	AATS021	FNWT021	FNCD021	FRWT021	FRBD021	FMWT021	FMCD021	FAWT021	FABD021	AAVT021	AAVPO21	AMRCM21
M22	AAUA022	AATS022	FNWT022	FNCD022	FRWT022	FRBD022	FMWT022	FMCD022	FAWT022	FABD022	AAVT022	AAVPO22	AMRCM22
M23	AAUA023	AATS023	FNWT023	FNCD023	FRWT023	FRBD023	FMWT023	FMCD023	FAWT023	FABD023	AAVT023	AAVPO23	AMRCM23
M24	AAUA024	AATS024	FNWT024	FNCD024	FRWT024	FRBD024	FMWT024	FMCD024	FAWT024	FABD024	AAVT024	AAVPO24	AMRCM24
M25	AAUA025	AATS025	FNWT025	FNCD025	FRWT025	FRBD025							

**EUROPE: REFINED OIL PRODUCTS (CRACK SPREAD)**

	FO 1%S NWE FOB Crg Brent Crk Derivs	FO 3.5%S ARA FOB Brg Brent Crk Derivs	FO 1%S NWE FOB Crg London WTI Crack Derivs	FO 1%S NWE FOB Crg London Dubai Crack Derivs	FO 3.5%S ARA FOB Brg London WTI Crack Derivs	FO 3.5%S ARA FOB Brg London Dubai Crack Derivs	FO 3.5%S Med FOB Crg London WTI Crack Derivs	FO 3.5%S Med FOB Crg London Dubai Crack Swap	FO 1%S ARA Brg London WTI Crack Derivs	FO 1%S ARA Brg London Dubai Crack Derivs	FO 1%S ARA Brg Brent Crk Derivs	FO 3.5%S Med FOB Crg Brent Crk Derivs	0.5% FOB Rotterdam Marine Fuel barge Crk derivs
CURRENCY	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$	US\$
UOM	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels
SETTLEMENT BASIS NAME	-	-	-	-	-	-	-	-	-	-	-	-	-
SETTLEMENT BASIS NAME	-	-	-	-	-	-	-	-	-	-	-	-	-
M26	AAUA026	AATS026	FNWT026	FNCD026	FRWT026	FRBD026							
M27	AAUA027	AATS027	FNWT027	FNCD027	FRWT027	FRBD027							
M28	AAUA028	AATS028	FNWT028	FNCD028	FRWT028	FRBD028							
M29	AAUA029	AATS029	FNWT029	FNCD029	FRWT029	FRBD029							
M30	AAUA030	AATS030	FNWT030	FNCD030	FRWT030	FRBD030							
M31	AAUA031	AATS031	FNWT031	FNCD031	FRWT031	FRBD031							
M32	AAUA032	AATS032	FNWT032	FNCD032	FRWT032	FRBD032							
M33	AAUA033	AATS033	FNWT033	FNCD033	FRWT033	FRBD033							
M34	AAUA034	AATS034	FNWT034	FNCD034	FRWT034	FRBD034							
M35	AAUA035	AATS035	FNWT035	FNCD035	FRWT035	FRBD035							
M36	AAUA036	AATS036	FNWT036	FNCD036	FRWT036	FRBD036							
Q1	AAUAG00	AATZX00	FNWTQ01	FNCDQ01	FRWTQ01	FRBDQ01	FMWTQ01	FMCDQ01	FAWTQ01	FABDQ01	AAATK00	AAATY00	AMRCQ01
Q2	AAUAH00	AATZY00	FNWTQ02	FNCDQ02	FRWTQ02	FRBDQ02	FMWTQ02	FMCDQ02	FAWTQ02	FABDQ02	AAATL00	AAATU00	AMRCQ02
Q3	AAUAI00	AATZZ00	FNWTQ03	FNCDQ03	FRWTQ03	FRBDQ03	FMWTQ03	FMCDQ03	FAWTQ03	FABDQ03	AAATM00	AAATV00	AMRCQ03
Q4	AAUAJ00	AAUAA00	FNWTQ04	FNCDQ04	FRWTQ04	FRBDQ04	FMWTQ04	FMCDQ04	FAWTQ04	FABDQ04	AAATN00	AAATW00	AMRCQ04
Q5	AAUAQ05	AATSQ05	FNWTQ05	FNCDQ05	FRWTQ05	FRBDQ05	FMWTQ05	FMCDQ05	FAWTQ05	FABDQ05	AAATQ05	AAATP05	AMRCQ05
Q6	AAUAQ06	AATSQ06	FNWTQ06	FNCDQ06	FRWTQ06	FRBDQ06	FMWTQ06	FMCDQ06	FAWTQ06	FABDQ06	AAATQ06	AAATP06	AMRCQ06
Q7	AAUAQ07	AATSQ07	FNWTQ07	FNCDQ07	FRWTQ07	FRBDQ07	FMWTQ07	FMCDQ07	FAWTQ07	FABDQ07	AAATQ07	AAATP07	AMRCQ07
Q8	AAUAQ08	AATSQ08	FNWTQ08	FNCDQ08	FRWTQ08	FRBDQ08	FMWTQ08	FMCDQ08	FAWTQ08	FABDQ08	AAATQ08	AAATP08	AMRCQ08
Q9	AAUAQ09	AATSQ09	FNWTQ09	FNCDQ09	FRWTQ09	FRBDQ09							
Q10	AAUAQ10	AATSQ10	FNWTQ10	FNCDQ10	FRWTQ10	FRBDQ10							
Q11	AAUAQ11	AATSQ11	FNWTQ11	FNCDQ11	FRWTQ11	FRBDQ11							
Q12	AAUAQ12	AATSQ12	FNWTQ12	FNCDQ12	FRWTQ12	FRBDQ12							
YEAR 1	AAUAK00	AAUAB00	FNWTY01	FNCDY01	FRWTY01	FRBDY01	FMWTY01	FMCDY01	FAWTY01	FABDY01	AAAT000	AAATX00	AMRCY01
YEAR 2	AAQDB00	AAQDJ00	FNWTY02	FNCDY02	FRWTY02	FRBDY02	FMWTY02	FMCDY02	FAWTY02	FABDY02	AAQEA00	AAQDS00	AMRCY02
YEAR 3													

## Europe

In Europe, PFC Oil assessments reflect a market on close value at 16:30:00 London time for all published forward curves.

### Crude oil

**ICE Brent frontline derivatives:** A Brent frontline derivative is a calendar month derivative that is settled using the ICE Brent futures contract. The derivative is financially settled using the closing price on each day of the month, for whichever futures contract is most prompt on each day (with the exception of the expiration date of the front-month's futures contract when the future's contract referenced is that for the second month). Daily Brent frontline derivatives are calculated using mean-adjusted values for the number of trading days that each futures contract spends as the front-month (with the exception of the front-month's expiry date). This is done by calculating the number of trading days within each month, which will vary according to the calendar month.

Platts also publishes WTI outright derivative assessments, Dubai outright derivative assessments, WTI/Brent spreads, Brent/Dubai ESS (Exchange of Swaps for Swaps), Brent/Dubai EFS (Exchange of Futures for Swaps) and inter-month spreads for 36 months forward for all outright price instruments at 16:30:00 London time.

**DFLs (Dated-to-Frontline):** An active derivatives market exists in trading the difference between Platts Dated Brent assessments and the ICE Frontline futures contract, known as the Dated-to-Frontline derivative. The Dated-to-Frontline derivatives are assessed 36 months forward, 12 quarters forward and three calendar years.

**Brent and WTI Crude futures:** Platts publishes assessments for ICE Brent and NYMEX WTI crude futures, reflecting value at 16:30:00 London time. Platts publishes assessments for 35 months, 11 quarters and three years forward, which roll

in line with the relevant exchange's futures expiry calendar. Platts publishes monthly, quarterly and yearly spreads for both contracts. Platts also publishes assessments for WTI-Brent futures spreads for all relevant points along this curve. Platts 16:30 assessments of Brent futures are incorporated into the Brent frontline derivative calculations.

**Brent CFDs:** Brent CFDs (Contract for Difference) are derivatives, assessed by Platts for each of eight weeks ahead of the day of publication. They represent the market differential in price between the Dated Brent assessment and a forward month cash BFOE contract, over the contractual period of the derivative. The first weekly contract represents the balance of the week from Monday to Wednesday, thereafter rolling to represent the following full working week.

**Urals CFD (Med and NWE):** Urals CFDs are derivatives assessed by Platts for Urals Mediterranean and NWE. These are published for each of the forward three months ahead of the day publication. They represent the market differential between the outright Urals assessment (for both the Mediterranean and NWE) over the contractual period and Dated Brent over the same period.

**CPC Blend CFD (Med):** CPC Blend CFDs are derivatives assessed by Platts for physical CPC Blend crude oil. These are published for each of the forward three months ahead of the day of publication. They represent the market differential between the outright CPC Blend assessment over the contractual period and Dated Brent over the same period.

**Brent/Dubai EFS (Exchange of Futures for Swaps):** This enables holders of ICE Brent futures to exchange their Brent futures position for a forward month Dubai crude derivative. The ICE Brent position is converted into a Dubai monthly derivative, plus a premium for the quality spread. The EFS is assessed for two calendar months forward.

### Refined oil products

**Propane:** Platts CIF ARA propane derivatives are assessed as an outright value and are denominated in dollars per metric ton. The underlying physical basis is the Platts CIF NWE Large Cargo assessment. Balance-month, four forward months and four forward quarters are assessed.

The propane/naphtha derivatives spread represents the difference between the equivalent CIF ARA propane derivative and the CIF NWE naphtha cargo derivative. Balance-month, four forward months and four forward quarters are assessed.

**Gasoline:** Platts Eurobob gasoline derivatives are assessed as a flat price and are denominated in dollars per metric ton. The underlying physical basis is the Eurobob FOB ARA barge assessment. Balance-month, 12 forward months, four forward quarters and one forward calendar year are assessed.

Platts also assesses balance-month and the first three forward months of Platts E10 derivatives. These are flat price assessments denominated in dollars per metric ton.

Platts also assesses balance-month, 12 forward months, four forward quarters and one forward calendar year for premium gasoline 10 ppm barge derivatives using the premium unleaded 10 PPM FOB ARA barge assessment as the underlying physical basis.

Platts premium unleaded 10 PPM FOB Med cargo derivatives are assessed as a flat price and are denominated in dollars per metric ton. The underlying physical basis is the premium unleaded 10 PPM FOB Med cargo assessment. Balance-month, front-month and second months are assessed.

Platts also publishes the premium unleaded 10 ppm FOB Med cargo derivatives as a differential to the Eurobob FOB ARA barge derivatives for the relevant months, termed the "Med/North differential".

Premium unleaded 10 PPM FOB Med crack derivatives are assessed as a differential to ICE Brent crude futures and assessed in dollars per barrel. Like the outright gasoline FOB Med cargo derivatives, the crack spreads are assessed for the balance-month, front-month and second month.

**Naphtha:** Platts naphtha cargoes CIF NWE are assessed as a flat price and are denominated in dollars per metric ton. The underlying physical basis is the naphtha cargoes CIF NWE cargo assessment. Balance-month, 12 forward months, four forward quarters and one forward calendar year are assessed.

Naphtha cargoes CIF NWE crack derivatives are assessed as a differential to ICE Brent crude futures and assessed in dollars per barrel. Like the outright naphtha derivatives, the crack spreads are assessed for balance-month, 12 forward months, four forward quarters and one forward calendar year.

The Naphtha CFR MOPJ vs Naphtha NWE CIF Cargo derivative or naphtha “East/West” derivative represents the difference between the comparable month’s Mean of Platts Japan (MOPJ) Naphtha derivative and the naphtha cargoes CIF NWE derivative. The MOPJ naphtha derivative settles against Platts C+F Japan naphtha assessments as published in the Asia-Pacific/Arab Gulf Marketscan. The assessments are published for three forward calendar months forward.

**Middle distillates:** Middle distillate derivatives are typically assessed as a differential to ICE Low Sulfur Gasoil futures. In addition to differential derivative values, Platts publishes flat price derivative values and crack derivative values for all 0.1% Gasoil, ULSD and Jet derivatives. To calculate flat price derivatives, Platts takes the relevant product’s differential swap (gasoil, diesel or jet fuel) and adds it to the relevant ICE Low Sulfur Gasoil Frontline. Crack spreads are calculated as the differential of flat price derivatives to assessed Brent frontline derivatives. The factors used to convert from \$/ton to \$/b are 7.45 for diesel and gasoil and 7.88 for jet fuel. As an example, to calculate the FOB ARA 0.1% Gasoil barge derivatives

for September: September gasoil frontline (\$650/mt) plus September gasoil barge derivatives (\$-4.50) = \$645.50/mt.

**Jet fuel:** The Platts Jet CIF NWE cargo derivatives are assessed as a differential to ICE Low Sulfur Gasoil futures and are denominated in dollars per metric ton. The forward curve is assessed for 36 forward months, 12 forward quarters and three calendar years. Platts Jet FOB Rotterdam barge derivatives are assessed as a differential to ICE Low Sulfur Gasoil futures and denominated in dollars per metric ton. The forward curve is assessed for three months forward.

**Diesel:** Platts 10 ppm FOB ARA ULSD barge derivatives, Platts CIF NWE 10 ppm cargo (basis ARA) derivatives, and Platts 10 ppm diesel CIF MED derivatives are assessed as a differential to ICE Low Sulfur Gasoil futures and are denominated in dollars per metric ton. The forward curve is assessed for 24 forward months, eight forward quarters and two forward years.

**Gasoil:** Platts 0.1% Gasoil ARA barge derivatives, 0.1% Gasoil CIF NWE cargo derivatives and 0.1% CIF Med cargo derivatives are assessed as a differential to ICE Low Sulfur Gasoil futures and are denominated in dollars per metric ton. The forward curve is assessed for 24 forward months, eight forward quarters and two forward years.

**ICE LSGO Futures at 16:30 London time:** The ICE gasoil futures contract specification switched from 0.1%, or 1,000 ppm sulfur to 10 ppm low sulfur gasoil in January 2015. All middle distillate derivative assessments listed from January 2015 onwards are in relation to the ICE Low Sulfur Gasoil futures contract. Platts assesses its ICE low sulfur gasoil futures curve for 36 forward months, 12 forward quarters and three calendar years. The roll of the front-month ICE low-sulfur gasoil futures is in line with the expiry calendar published by the Intercontinental Exchange, with the expiry typically happening at 12:00 noon two business days prior to the 14th of the month. As an example the ICE LSGO July 2018 futures contract expired at 12:00 noon on July 12, when the nearest front-month contract became the August 2018 futures

contract. Platts assessed the prevailing value at 16:30 London time based on outright ICE LSGO futures contracts as well as inter-month spreads assessed at the European close.

**Gasoil frontline swaps:** These are calendar month derivatives that are settled using the ICE LSGO Futures contract. Gasoil frontline derivatives are calculated by adjusting the value for the proportion of business days that each futures contracts trades as the front-month (for example, in calendar May, approximately 33% will be the May gasoil futures contract and 66% will be the June month contract).

**ICE Gasoil Settlement values:** Platts publishes the nearest six settlement values for the ICE Low Sulfur Gasoil contracts as well as a midday expiry value when applicable. The published ICE gasoil settlement values are reported by the Intercontinental Exchange.

**Fuel oil derivatives:** Platts assesses the following kinds of European fuel oil derivatives:

1% Fuel Oil FOB North West Europe (NWE) cargo derivatives

3.5% Fuel Oil FOB Rotterdam barge derivatives

3.5% Fuel Oil FOB Mediterranean (MED) cargo derivatives

1% Fuel Oil FOB Rotterdam barge derivatives

180 CST Fuel Oil FOB Singapore Cargo vs 3.5% Fuel Oil FOB Rotterdam Barge derivatives

The high sulfur 3.5% FOB Rotterdam derivatives form the basis of all other fuel oil derivative assessments. They are frequently traded on a flat-price basis. Other fuel oil derivative assessments, however, are most commonly traded as a differential to the 3.5% fuel oil barge derivative, specifically the 1% cargoes, the 1% barges and the 3.5% cargoes. The 180 CST FOB SG Cargo versus 3.5% Fuel Oil FOB Rotterdam Barge is also



traded as a differential.

The differentials are as follows:

- 3.5% FOB Rotterdam barges versus 3.5% FOB MED cargoes, termed the “Med-North differential”
- 1% FOB NWE cargoes versus 3.5% FOB Rotterdam barges, termed the “hilo differential”
- 1% FOB Rotterdam barges versus 1% FOB NWE cargoes, termed the “barge/cargo differential”

180 CST FOB SG Cargoes versus 3.5% Fuel Oil FOB Rotterdam Barges, termed the “east/west differential”

The 3.5% FOB Rotterdam barge derivatives and the 1% FOB NWE derivatives are priced against the 3.5% and 1% FOB Rotterdam barges as published in Platts European Marketscan. The 1% FOB NWE cargo derivatives are priced against the Northwest European cargoes in Platts Marketscan. The 3.5% FOB MED cargo derivatives are priced against the FOB MED (basis Italy)

3.5% fuel oil assessment as assessed on Marketscan. The 180 CST Singapore Fuel Oil Cargo vs 3.5% Fuel Oil FOB Rotterdam Barge derivatives are priced against the 180 CST FOB Singapore cargo and 3.5% Rotterdam barges as published in Platts Asia Pacific/Arab Gulf Marketscan and Platts European Marketscan respectively.

Forward curves for the 3.5% FOB Rotterdam barge derivatives and the 1% FOB NWE cargo derivative assessments are assessed for 36 months forward, 12 quarters forward and three calendar years forward. The forward curves for the 3.5% FOB MED cargo derivatives and the 1% Rotterdam barge derivative assessments are assessed for 24 months forward, eight quarters forward and two calendar years forward. The 180 CST Singapore Fuel Oil Cargo vs 3.5% Fuel Oil FOB Rotterdam Barge derivatives assessments are assessed for the first three full months forward.

**Marine fuel 0.5% derivatives:** Platts assesses financially settled derivatives contracts that settle against its physical Marine Fuel 0.5% assessments in Europe. The metric ton-to-barrel conversion factor for the derivatives contracts is 6.35 -- in line

with the conversion factor for Platts physical Marine Fuel 0.5% assessments and with the prevailing qualities of fuel oil.

FOB Rotterdam barge Marine Fuel 0.5% derivatives settle against the FOB Rotterdam barge Marine Fuel 0.5% assessments as published in the Platts European Marketscan. Platts publishes derivatives assessments for balance month, 24 subsequent months, inter-month spreads and eight quarters and two years from the month of publication. In addition, Platts publishes the differential to FO 3.5% FOB Rotterdam Barge derivatives and crack values relative to Brent 1st Line Swaps for the same period.

All European fuel oil and marine fuel oil derivatives are assessed as dollars per metric ton. Each derivative assessment contains the flat-price value of the derivative, the relevant differential and the crack value. Crack derivatives are assessed in \$/barrel and are generated using the Brent frontline derivatives. The cracks are published on each page alongside the flat-price for each fuel oil curve.

**AMERICAS: CRUDE OIL**

	ICE Brent Futures	Brent Frontline Derivs	NYMEX WTI Futures at Houston close	WTI Frontline Derivs	WTI-Brent Derivs	Dubai Derivs	WTI-Dubai Derivs
CURRENCY	US\$	US\$	US\$	US\$	US\$	US\$	US\$
UOM	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels
SETTLEMENT BASIS NAME	-	Brent Futures Settlement	-	WTI Futures Settlement	-	Platts Dubai	
SETTLEMENT BASIS CODE	-	XILL001	-	AAWS001	-	PCAAAT00	
M1	AAQBG00	BHFSM01	NYCRM01	AARVC00	AAHLP00	DUFH001	WTIDM01
M2	AAQBH00	BHFSM02	NYCRM02	AARVD00	AAHLQ00	DUFH002	WTIDM02
M3	AAXZZ00	BHFSM03	NYCRM03	AARVE00	AAHLR00	DUFH003	WTIDM03
M4	AAYAL00	BHFSM04	NYCRM04	AARVF00	AAHLS00	DUFH004	WTIDM04
M5	-	BHFSM05	-	AARVG00	AAHLM05	DUFH005	WTIDM05
M6	-	BHFSM06	-	AARVH00	AAHLM06	DUFH006	WTIDM06
M7	-	BHFSM07	-	AARVM07	AAHLM06	DUFH007	WTIDM07
M8	-	BHFSM08	-	AARVM08	AAHLM08	DUFH008	WTIDM08
M9	-	BHFSM09	-	AARVM09	AAHLM09	DUFH009	WTIDM09
M10	-	BHFSM10	-	AARVM10	AAHLM10	DUFH010	WTIDM10
M11	-	BHFSM11	-	AARVM11	AAHLM11	DUFH011	WTIDM11
M12	-	BHFSM12	-	AARVM12	AAHLM12	DUFH012	WTIDM12
M13	-	BHFSM13	-	AARVM13	AAHLM13	DUFH013	WTIDM13
M14	-	BHFSM14	-	AARVM14	AAHLM14	DUFH014	WTIDM14
M15	-	BHFSM15	-	AARVM15	AAHLM15	DUFH015	WTIDM15
M16	-	BHFSM16	-	AARVM16	AAHLM16	DUFH016	WTIDM16
M17	-	BHFSM17	-	AARVM17	AAHLM17	DUFH017	WTIDM17
M18	-	BHFSM18	-	AARVM18	AAHLM18	DUFH018	WTIDM18
M19	-	BHFSM19	-	AARVM19	AAHLM19	DUFH019	WTIDM19
M20	-	BHFSM20	-	AARVM20	AAHLM20	DUFH020	WTIDM20
M21	-	BHFSM21	-	AARVM21	AAHLM21	DUFH021	WTIDM21
M22	-	BHFSM22	-	AARVM22	AAHLM22	DUFH022	WTIDM22
M23	-	BHFSM23	-	AARVM23	AAHLM23	DUFH023	WTIDM23
M24	-	BHFSM24	-	AARVM24	AAHLM24	DUFH024	WTIDM24
M25	-	BHFSM25	-	AARVM25	AAHLM25	DUFH025	WTIDM25
M26	-	BHFSM26	-	AARVM26	AAHLM26	DUFH026	WTIDM26
M27	-	BHFSM27	-	AARVM27	AAHLM27	DUFH027	WTIDM27
M28	-	BHFSM28	-	AARVM28	AAHLM28	DUFH028	WTIDM28
M29	-	BHFSM29	-	AARVM29	AAHLM29	DUFH029	WTIDM29
M30	-	BHFSM30	-	AARVM30	AAHLM30	DUFH030	WTIDM30
M31	-	BHFSM31	-	AARVM31	AAHLM31	DUFH031	WTIDM31
M32	-	BHFSM32	-	AARVM32	AAHLM32	DUFH032	WTIDM32

**AMERICAS: CRUDE OIL**

	ICE Brent Futures	Brent Frontline Derivs	NYMEX WTI Futures at Houston close	WTI Frontline Derivs	WTI-Brent Derivs	Dubai Derivs	WTI-Dubai Derivs
CURRENCY	US\$	US\$	US\$	US\$	US\$	US\$	US\$
UOM	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels
SETTLEMENT BASIS NAME	-	Brent Futures Settlement	-	WTI Futures Settlement	-	Platts Dubai	
SETTLEMENT BASIS CODE	-	XILL001	-	AAWS001	-	PCAA00	
M33	-	BHFSM33	-	AARVM33	AAHLM33	DUFH033	WTIDM33
M34	-	BHFSM34	-	AARVM34	AAHLM34	DUFH034	WTIDM34
M35	-	BHFSM35	-	AARVM35	AAHLM35	DUFH035	WTIDM35
M36	-	BHFSM36	-	AARVM36	AAHLM36	DUFH036	WTIDM36
Q1	-	BHFSQ01	-	AARVI00	AAHLV00	DUFHQ01	WTIDQ01
Q2	-	BHFSQ02	-	AARVJ00	AAHLW00	DUFHQ02	WTIDQ02
Q3	-	BHFSQ03	-	AARVK00	AAHLX00	DUFHQ03	WTIDQ03
Q4	-	BHFSQ04	-	AARVL00	AAHLY00	DUFHQ04	WTIDQ04
Q5	-	BHFSQ05	-	AARVM00	AAHLQ05	DUFHQ05	WTIDQ05
Q6	-	BHFSQ06	-	AARVN00	AAHLQ06	DUFHQ06	WTIDQ06
Q7	-	BHFSQ07	-	AARVQ07	AAHLQ07	DUFHQ07	WTIDQ07
Q8	-	BHFSQ08	-	AARVQ08	AAHLQ08	DUFHQ08	WTIDQ08
Q9	-	BHFSQ09	-	AARVQ09	AAHLQ09	DUFHQ09	WTIDQ09
Q10	-	BHFSQ10	-	AARVQ10	AAHLQ10	DUFHQ10	WTIDQ10
Q11	-	BHFSQ11	-	AARVQ11	AAHLQ11	DUFHQ11	WTIDQ11
Q12	-	BHFSQ12	-	AARVQ12	AAHLQ12	DUFHQ12	WTIDQ12
YEAR 1	-	BHFSY01	-	AARV000	AAHLZ00	DUFHY01	WTIDY01
YEAR 2	-	BHFSY02	-	AARVP00	AAHMA00	DUFHY02	WTIDY02
YEAR 3	-	BHFSY03	-	AARVQ00	AAHMB00	DUFHY03	WTIDY03

**AMERICAS: CRUDE OIL (TIME SPREAD)**

	Brent Frontline Time Spread Derivs	WTI Frontline Time Spread Derivs	Dubai Time Spread Derivs	WTI-Dubai Time Spread Derivs
CURRENCY	US\$	US\$	US\$	US\$
UOM	Barrels	Barrels	Barrels	Barrels
SETTLEMENT BASIS NAME	-	-	-	-
SETTLEMENT BASIS CODE	-	-	-	-
M1/M2	BFM0102	WFM0102	DUT0102	WDM0102
M2/M3	BFM0203	WFM0203	DUT0203	WDM0203
M3/M4	BFM0304	WFM0304	DUT0304	WDM0304
M4/M5	BFM0405	WFM0405	DUT0405	WDM0405
M5/M6	BFM0506	WFM0506	DUT0506	WDM0506
M6/M7	BFM0607	WFM0607	DUT0607	WDM0607
M7/M8	BFM0708	WFM0708	DUT0708	WDM0708
M8/M9	BFM0809	WFM0809	DUT0809	WDM0809
M9/M10	BFM0910	WFM0910	DUT0910	WDM0910
M10/M11	BFM1011	WFM1011	DUT1011	WDM1011
M11/M12	BFM1112	WFM1112	DUT1112	WDM1112
M12/M13	BFM1213	WFM1213	DUT1213	WDM1213
M13/M14	BFM1314	WFM1314	DUT1314	WDM1314
M14/M15	BFM1415	WFM1415	DUT1415	WDM1415
M15/M16	BFM1516	WFM1516	DUT1516	WDM1516
M16/M17	BFM1617	WFM1617	DUT1617	WDM1617
M17/M18	BFM1718	WFM1718	DUT1718	WDM1718
M18/M19	BFM1819	WFM1819	DUT1819	WDM1819
M19/M20	BFM1920	WFM1920	DUT1920	WDM1920
M20/M21	BFM2021	WFM2021	DUT2021	WDM2021
M21/M22	BFM2122	WFM2122	DUT2122	WDM2122
M22/M23	BFM2223	WFM2223	DUT2223	WDM2223
23/M24	BFM2324	WFM2324	DUT2324	WDM2324
24/M25	BFM2425	WFM2425	DUT2425	WDM2425
M25/M26	BFM2526	WFM2526	DUT2526	WDM2526
M26/M27	BFM2627	WFM2627	DUT2627	WDM2627
M27/M28	BFM2728	WFM2728	DUT2728	WDM2728
M28/M29	BFM2829	WFM2829	DUT2829	WDM2829
M29/M30	BFM2930	WFM2930	DUT2930	WDM2930
M30/M31	BFM3031	WFM3031	DUT3031	WDM3031
M31/M32	BFM3132	WFM3132	DUT3132	WDM3132
M32/M33	BFM3233	WFM3233	DUT3233	WDM3233
M33/M34	BFM3334	WFM3334	DUT3334	WDM3334

**AMERICAS: CRUDE OIL (TIME SPREAD)**

	Brent Frontline Time Spread Derivs	WTI Frontline Time Spread Derivs	Dubai Time Spread Derivs	WTI-Dubai Time Spread Derivs
CURRENCY	US\$	US\$	US\$	US\$
UOM	Barrels	Barrels	Barrels	Barrels
SETTLEMENT BASIS NAME	-	-	-	-
SETTLEMENT BASIS CODE	-	-	-	-
M34/M35	BFM3435	WFM3435	DUT3435	WDM3435
M35/M36	BFM3536	WFM3536	DUT3536	WDM3536
Q1/Q2	BFQ0102	WFQ0102	DUQ0102	WDQ0102
Q2/Q3	BFQ0203	WFQ0203	DUQ0203	WDQ0203
Q3/Q4	BFQ0304	WFQ0304	DUQ0304	WDQ0304
Q4/Q5	BFQ0405	WFQ0405	DUQ0405	WDQ0405
Q5/Q6	BFQ0506	WFQ0506	DUQ0506	WDQ0506
Q6/Q7	BFQ0607	WFQ0607	DUQ0607	WDQ0607
Q7/Q8	BFQ0708	WFQ0708	DUQ0708	WDQ0708
Q8/Q9	BFQ0809	WFQ0809	DUQ0809	WDQ0809
Q9/Q10	BFQ0910	WFQ0910	DUQ0910	WDQ0910
Q10/Q11	BFQ1011	WFQ1011	DUQ1011	WDQ1011
Q11/Q12	BFQ1112	WFQ1112	DUQ1112	WDQ1112
Y1/Y2	BFY0102	WFY0102	DUY0102	WDY0102
Y2/Y3	BFY0203	WFY0203	DUY0203	WDY0203

**AMERICAS: REFINED OIL PRODUCTS**

	USGC Propane Derivs	RBOB Frontline Derivs	USGC Gasoline Derivs	USWC Gasoline Derivs	ULSD Frontline Derivs	USAC Jet Derivs	USGC Jet Derivs	USWC Jet Derivs	USGC ULSD Derivs	USGC HSFO Derivs	USGC Marine Fuel 0.5% Derivs	USAC 1% Fuel Oil Derivs
CURRENCY	US Cents	US Cents	US Cents	US Cents	US Cents	US Cents	US Cents	US Cents	US Cents	US\$	US\$	US\$
UOM	Gallon	Gallon	Gallon	Gallon	Gallon	Gallon	Gallon	Gallon	Gallon	Barrels	Barrels	Barrels
SETTLEMENT BASIS NAME	NA	RBOB Futures Settlement	Gasoline Unl 87 USGC Prompt Pipeline	NA	ULSD Futures Settlement	Jet Kero New York Harbor Barge	Jet Kero 54 USGC Prompt Pipeline	Jet Kero Los Angeles CA Pipeline	ULSD USGC Prompt Pipeline	FO No6 3.0%S USGC Waterborne	USGC Marine Fuel 0.5%	FO No6 1.0% NYH Delivered
SETTLEMENT BASIS CODE	NA	AARS001	PGACT00	NA	AAHS001	PJAAW00	PJABO00	PJAAP00	AATGY00	PUAFZ00	AUGMA00	PUAA000
Bal Month	-	-	ADAAB00	-	-	-	ADACB00	-	ADADB00	AARZT00	AUSAB00	AARZS00
M1	AAHYX00	AAULP00	AAHEN01	AAKYR01	AAULH00	AAHFD01	AAHFQ01	AAHGD01	AAVTS01	PUAXJ00	AUSAM01	PUAXD00
M2	AAHY00	AAULQ00	AAHE001	AAKYS01	AAULI00	AAHFE01	AAHFR01	AAHGE01	AAVTT01	PUAXL00	AUSAM02	PUAXF00
M3	AAHYZ00	AAULR00	AAHEP01	AAKYT01	AAULJ00	AAHFF01	AAHFS01	AAHGF01	AAVTU01	AAHKH00	AUSAM03	AAHJH00
M4	-	AAULS00	AAHEQ01	AAKYU01	AAULK00	AAHFG01	AAHFT01	AAHGG01	AAVTV01	AAHKI00	AUSAM04	AAHJI00
M5	-	AAULM05	AAHDM05	AAKZM05	AAUMM05	AAHEM05	AAHGM05	AAJGM05	AAWTM05	AAHKJ00	AUSAM05	AAHJJ00
M6	-	AAULM06	AAHDM06	AAKZM06	AAUMM06	AAHEM06	AAHGM06	AAJGM06	AAWTM06	AAHKK00	AUSAM06	AAHJK00
M7	-	AAULM07	AAHDM07	AAKZM07	AAUMM07	AAHEM07	AAHGM07	AAJGM07	AAWTM07	AAHMM07	AUSAM07	AAHKM07

**AMERICAS: REFINED OIL PRODUCTS**

	USGC Propane Derivs	RBOB Frontline Derivs	USGC Gasoline Derivs	USWC Gasoline Derivs	ULSD Frontline Derivs	USAC Jet Derivs	USGC Jet Derivs	USWC Jet Derivs	USGC ULSD Derivs	USGC HSFO Derivs	USGC Marine Fuel 0.5% Derivs	USAC 1% Fuel Oil Derivs
CURRENCY	US Cents	US Cents	US Cents	US Cents	US Cents	US Cents	US Cents	US Cents	US Cents	US\$	US\$	US\$
UOM	Gallon	Gallon	Gallon	Gallon	Gallon	Gallon	Gallon	Gallon	Gallon	Barrels	Barrels	Barrels
SETTLEMENT BASIS NAME	NA	RBOB Futures Settlement	Gasoline Unl 87 USGC Prompt Pipeline	NA	ULSD Futures Settlement	Jet Kero New York Harbor Barge	Jet Kero 54 USGC Prompt Pipeline	Jet Kero Los Angeles CA Pipeline	ULSD USGC Prompt Pipeline	FO No6 3.0%S USGC Waterborne	USGC Marine Fuel 0.5%	FO No6 1.0% NYH Delivered
SETTLEMENT BASIS CODE	NA	AARS001	PGACT00	NA	AAHS001	PJAAW00	PJABO00	PJAAP00	AATGY00	PUAFZ00	AUGMA00	PUAAO00
M8	-	AAULM08	AAHDM08	AAKZM08	AAUMM08	AAHEM08	AAHGM08	AAJGM08	AAWTM08	AAHMM08	AUSAM08	AAHKM08
M9	-	AAULM09	AAHDM09	AAKZM09	AAUMM09	AAHEM09	AAHGM09	AAJGM09	AAWTM09	AAHMM09	AUSAM09	AAHKM09
M10	-	AAULM10	AAHDM10	AAKZM10	AAUMM10	AAHEM10	AAHGM10	AAJGM10	AAWTM10	AAHMM10	AUSAM10	AAHKM10
M11	-	AAULM11	AAHDM11	AAKZM11	AAUMM11	AAHEM11	AAHGM11	AAJGM11	AAWTM11	AAHMM11	AUSAM11	AAHKM11
M12	-	AAULM12	AAHDM12	AAKZM12	AAUMM12	AAHEM12	AAHGM12	AAJGM12	AAWTM12	AAHMM12	AUSAM12	AAHKM12
M13	-	AAULM13	-	-	AAUMM13	-	-	-	-	-	-	-
M14	-	AAULM14	-	-	AAUMM14	-	-	-	-	-	-	-
M15	-	AAULM15	-	-	AAUMM15	-	-	-	-	-	-	-
M16	-	AAULM16	-	-	AAUMM16	-	-	-	-	-	-	-
M17	-	AAULM17	-	-	AAUMM17	-	-	-	-	-	-	-
M18	-	AAULM18	-	-	AAUMM18	-	-	-	-	-	-	-
M19	-	AAULM19	-	-	AAUMM19	-	-	-	-	-	-	-
M20	-	AAULM20	-	-	AAUMM20	-	-	-	-	-	-	-
M21	-	AAULM21	-	-	AAUMM21	-	-	-	-	-	-	-
M22	-	AAULM22	-	-	AAUMM22	-	-	-	-	-	-	-
M23	-	AAULM23	-	-	AAUMM23	-	-	-	-	-	-	-
M24	-	AAULM24	-	-	AAUMM24	-	-	-	-	-	-	-
M25	-	AAULM25	-	-	AAUMM25	-	-	-	-	-	-	-
M26	-	AAULM26	-	-	AAUMM26	-	-	-	-	-	-	-
M27	-	AAULM27	-	-	AAUMM27	-	-	-	-	-	-	-
M28	-	AAULM28	-	-	AAUMM28	-	-	-	-	-	-	-
M29	-	AAULM29	-	-	AAUMM29	-	-	-	-	-	-	-
M30	-	AAULM30	-	-	AAUMM30	-	-	-	-	-	-	-
M31	-	AAULM31	-	-	AAUMM31	-	-	-	-	-	-	-
M32	-	AAULM32	-	-	AAUMM32	-	-	-	-	-	-	-
M33	-	AAULM33	-	-	AAUMM33	-	-	-	-	-	-	-
M34	-	AAULM34	-	-	AAUMM34	-	-	-	-	-	-	-
M35	-	AAULM35	-	-	AAUMM35	-	-	-	-	-	-	-
M36	-	AAULM36	-	-	AAUMM36	-	-	-	-	-	-	-
Q1	PMABS00	AAULT00	AAHET01	AAKYV01	AAULL00	AAHFJ01	AAHFW01	AAHGJ01	AAVTW01	PUAXN00	AUSBQ01	PUAXG00
Q2	PMABT00	AAULU00	AAHEU01	AAKYW01	AAULM00	AAHFK01	AAHFX01	AAHGK01	AAVTX01	AAHKM00	AUSBQ02	AAHJM00

**AMERICAS: REFINED OIL PRODUCTS**

	USGC Propane Derivs	RBOB Frontline Derivs	USGC Gasoline Derivs	USWC Gasoline Derivs	ULSD Frontline Derivs	USAC Jet Derivs	USGC Jet Derivs	USWC Jet Derivs	USGC ULSD Derivs	USGC HSFO Derivs	USGC Marine Fuel 0.5% Derivs	USAC 1% Fuel Oil Derivs
CURRENCY	US Cents	US Cents	US Cents	US Cents	US Cents	US Cents	US Cents	US Cents	US Cents	US\$	US\$	US\$
UOM	Gallon	Gallon	Gallon	Gallon	Gallon	Gallon	Gallon	Gallon	Gallon	Barrels	Barrels	Barrels
SETTLEMENT BASIS NAME	NA	RBOB Futures Settlement	Gasoline Unl 87 USGC Prompt Pipeline	NA	ULSD Futures Settlement	Jet Kero New York Harbor Barge	Jet Kero 54 USGC Prompt Pipeline	Jet Kero Los Angeles CA Pipeline	ULSD USGC Prompt Pipeline	FO No6 3.0%S USGC Waterborne	USGC Marine Fuel 0.5%	FO No6 1.0% NYH Delivered
SETTLEMENT BASIS CODE	NA	AARS001	PGACT00	NA	AAHS001	PJAAW00	PJABO00	PJAAP00	AATGY00	PUAFZ00	AUGMA00	PUAAO00
Q3	-	AAULV00	AAHEV01	AAKYY01	AAULN00	AAHFL01	AAHFY01	AAHGL01	AAVTY01	AAHKN00	AUSBQ03	AAHJN00
Q4	-	AAQSC00	AAHEW01	AAKYZ01	AAULO00	AAHFM01	AAHFZ01	AAHGM01	AAVTZ01	AAHK000	AUSBQ04	AAHJ000
Q5	-	AAULQ05	-	-	AAUMQ05	-	-	-	-	-	-	-
Q6	-	AAULQ06	-	-	AAUMQ06	-	-	-	-	-	-	-
Q7	-	AAULQ07	-	-	AAUMQ07	-	-	-	-	-	-	-
Q8	-	AAULQ08	-	-	AAUMQ08	-	-	-	-	-	-	-
Q9	-	AAULQ09	-	-	AAUMQ09	-	-	-	-	-	-	-
Q10	-	AAULQ10	-	-	AAUMQ10	-	-	-	-	-	-	-
Q11	-	AAULQ11	-	-	AAUMQ11	-	-	-	-	-	-	-
Q12	-	AAULQ12	-	-	AAUMQ12	-	-	-	-	-	-	-
YEAR 1	-	AAQQF00	-	-	AAQRH00	-	-	-	-	AAHKP00	AUSBY01	AAHJP00
YEAR 2	-	AAQQG00	-	-	AAUMYY2	-	-	-	-	AAHKQ00	-	AAHJQ00
YEAR 3	-	AAULY03	-	-	AAUMYY3	-	-	-	-	-	-	-

**AMERICAS: REFINED OIL PRODUCTS (DIFFERENTIALS)**

	USGC Gasoline Differential Derivs	USWC Gasoline Differential Derivs	USAC Jet Differential Derivs	USGC Jet Differential Derivs	USWC Jet Differential Derivs	USGC ULSD Differential Derivs	USGC 0.5% vs HSFO Derivs	Hi/Lo (1%-HSFO) Derivs
CURRENCY	US Cents	US Cents	US Cents	US Cents	US Cents	US Cents	US\$	US\$
UOM	Gallon	Gallon	Gallon	Gallon	Gallon	Gallon	Barrels	Barrels
SETTLEMENT BASIS NAME	-	-	-	-	-	-	-	-
SETTLEMENT BASIS CODE	-	-	-	-	-	-	-	-
Bal Month	AAXRQ00			AAXRQ00		AAXRQ00	AUSB00	-
M1	AAHEN00	AAKYR00	AAHFD00	AAHFQ00	AAHGD00	AAVTS00	AUSBM01	AAQQV00
M2	AAHE000	AAKYS00	AAHFE00	AAHFR00	AAHGE00	AAVTT00	AUSBM02	AAQQW00
M3	AAHEP00	AAKYT00	AAHFF00	AAHFS00	AAHGF00	AAVTU00	AUSBM03	AAQQX00
M4	AAHEQ00	AAKYU00	AAHFG00	AAHFT00	AAHGG00	AAVTV00	AUSBM04	AAQQY00
M5	AAHCM05	AAKYM05	AAHFM05	AAHFU00	AAHGH00	AAVTM05	AUSBM05	AAQQZ00
M6	AAHCM06	AAKYM06	AAHFM06	AAHFV00	AAHGI00	AAVTM06	AUSBM06	AAQRA00
M7	AAHCM07	AAKYM07	AAHFM07	AAHGA00	AAIGM07	AAVTM07	AUSBM07	F13HM07
M8	AAHCM08	AAKYM08	AAHFM08	AAHGB00	AAIGM08	AAVTM08	AUSBM08	F13HM08

**AMERICAS: REFINED OIL PRODUCTS (DIFFERENTIALS)**

	USGC Gasoline Differential Derivs	USWC Gasoline Differential Derivs	USAC Jet Differential Derivs	USGC Jet Differential Derivs	USWC Jet Differential Derivs	USGC ULSD Differential Derivs	USGC 0.5% vs HSFO Derivs	Hi/Lo (1%-HSFO) Derivs
CURRENCY	US Cents	US Cents	US Cents	US Cents	US Cents	US Cents	US\$	US\$
UOM	Gallon	Gallon	Gallon	Gallon	Gallon	Gallon	Barrels	Barrels
SETTLEMENT BASIS NAME	-	-	-	-	-	-	-	-
SETTLEMENT BASIS CODE	-	-	-	-	-	-	-	-
M9	AAHCM09	AAKYM09	AAHFM09	AAHGC00	AAIGM09	AAVTM09	AUSBM09	F13HM09
M10	AAHCM10	AAKYM10	AAHFM10	AAHBM10	AAIGM10	AAVTM10	AUSBM10	F13HM10
M11	AAHCM11	AAKYM11	AAHFM11	AAHBM11	AAIGM11	AAVTM11	AUSBM11	F13HM11
M12	AAHCM12	AAKYM12	AAHFM12	AAHBM12	AAIGM12	AAVTM12	AUSBM12	F13HM12
Q1	AAHET00	AAKYV00	AAHFJ00	AAHFW00	AAHGJ00	AAVTW00	AUSAQ01	AAQRB00
Q2	AAHEU00	AAKYW00	AAHFK00	AAHFX00	AAHGK00	AAVTX00	AUSAQ02	AAQRC00
Q3	AAHEV00	AAKYY00	AAHFL00	AAHFY00	AAHGL00	AAVTY00	AUSAQ03	AAQRD00
Q4	AAHEW00	AAKYZ00	AAHFM00	AAHFZ00	AAHGM00	AAVTZ00	AUSAQ04	AAQRE00
Y1	-	-	-	-	-	-	-	AAQRF00
Y2	-	-	-	-	-	-	-	AAQRG00



**AMERICAS: REFINED OIL PRODUCTS (CRACK SPREAD)**

	USGC Gasoline WTI Crack Derivs	USGC Gasoline Brent Crack Derivs	USGC Gasoline Dubai Crack Derivs	USWC Gasoline WTI Crack Derivs	USWC Gasoline Brent Crack Derivs	USWC Gasoline Dubai Crack Derivs
CURRENCY	US Cents	US Cents	US Cents	US Cents	US Cents	US Cents
UOM	Gallon	Gallon	Gallon	Gallon	Gallon	Gallon
SETTLEMENT BASIS NAME	-	-	-	-	-	-
SETTLEMENT BASIS CODE	-	-	-	-	-	-
M1	AAQNL00	GRFBM01	DUGC001	AAQOC00	CRFBM01	DUGR001
M2	AAQNM00	GRFBM02	DUGC002	AAQOD00	CRFBM02	DUGR002
M3	AAQNW00	GRFBM03	DUGC003	AAQOE00	CRFBM03	DUGR003
M4	AAQNX00	GRFBM04	DUGC004	AAQOF00	CRFBM04	DUGR004
M5	AAQNM05	GRFBM05	DUGC005	AAQLM05	CRFBM05	DUGR005
M6	AAQNM06	GRFBM06	DUGC006	AAQLM06	CRFBM06	DUGR006
M7	AAQNM07	GRFBM07	DUGC007	AAQLM07	CRFBM07	DUGR007
M8	AAQNM08	GRFBM08	DUGC008	AAQLM08	CRFBM08	DUGR008
M9	AAQNM09	GRFBM09	DUGC009	AAQLM09	CRFBM09	DUGR009
M10	AAQNM10	GRFBM10	DUGC010	AAQLM10	CRFBM10	DUGR010
M11	AAQNM11	GRFBM11	DUGC011	AAQLM11	CRFBM11	DUGR011
M12	AAQNM12	GRFBM12	DUGC012	AAQLM12	CRFBM12	DUGR012
Q1	AAQNY00	GRFBQ01	DUGCQ01	AAQOG00	CRFBQ01	DUGRQ01
Q2	AAQNZ00	GRFBQ02	DUGCQ02	AAQOH00	CRFBQ02	DUGRQ02
Q3	AAQOA00	GRFBQ03	DUGCQ03	AAQOI00	CRFBQ03	DUGRQ03
Q4	AAQOB00	GRFBQ04	DUGCQ04	AAQOJ00	CRFBQ04	DUGRQ04
YEAR 1	-	-	-	-	-	-
YEAR 2	-	-	-	-	-	-

**AMERICAS: REFINED OIL PRODUCTS (CRACK SPREAD)**

	USAC Jet WTI Crack Derivs	USAC Jet Brent Crack Derivs	USAC Jet Dubai Crack Derivs	USGC Jet WTI Crack Derivs	USGC Jet Brent Crack Derivs	USGC Jet Dubai Crack Derivs	USWC Jet WTI Crack Derivs	USWC Jet Brent Crack Derivs	USWC Jet Dubai Crack Derivs	USGC ULSD WTI Crack Derivs	USGC ULSD Brent Crack Derivs	USGC ULSD Dubai Crack Derivs
CURRENCY	US Cents	US Cents	US Cents	US Cents	US Cents	US Cents	US Cents	US Cents	US Cents	US Cents	US Cents	US Cents
UOM	Gallon	Gallon	Gallon	Gallon	Gallon	Gallon	Gallon	Gallon	Gallon	Gallon	Gallon	Gallon
SETTLEMENT BASIS NAME	-	-	-	-	-	-	-	-	-	-	-	-
SETTLEMENT BASIS CODE	-	-	-	-	-	-	-	-	-	-	-	-
M1	AAQOS00	JHFBM01	DUJA001	AAQPF00	JVFBM01	DUJG001	AAQPS00	JIFBM01	DUJW001	AAQOK00	UUHBM01	DUDH001
M2	AAQOT00	JHFBM02	DUJA002	AAQPG00	JVFBM02	DUJG002	AAQPT00	JIFBM02	DUJW002	AAQOL00	UUHBM02	DUDH002
M3	AAQOU00	JHFBM03	DUJA003	AAQPH00	JVFBM03	DUJG003	AAQPU00	JIFBM03	DUJW003	AAQOM00	UUHBM03	DUDH003
M4	AAQOV00	JHFBM04	DUJA004	AAQPI00	JVFBM04	DUJG004	AAQPV00	JIFBM04	DUJW004	AAQON00	UUHBM04	DUDH004
M5	AAQNM05	JHFBM05	DUJA005	AAQPJ00	JVFBM05	DUJG005	AAQPW00	JIFBM05	DUJW005	AAQOM05	UUHBM05	DUDH005

**AMERICAS: REFINED OIL PRODUCTS (CRACK SPREAD)**

	USAC Jet WTI Crack Derivs	USAC Jet Brent Crack Derivs	USAC Jet Dubai Crack Derivs	USGC Jet WTI Crack Derivs	USGC Jet Brent Crack Derivs	USGC Jet Dubai Crack Derivs	USWC Jet WTI Crack Derivs	USWC Jet Brent Crack Derivs	USWC Jet Dubai Crack Derivs	USGC ULSD WTI Crack Derivs	USGC ULSD Brent Crack Derivs	USGC ULSD Dubai Crack Derivs
CURRENCY	US Cents	US Cents	US Cents	US Cents	US Cents	US Cents	US Cents	US Cents	US Cents	US Cents	US Cents	US Cents
UOM	Gallon	Gallon	Gallon	Gallon	Gallon	Gallon	Gallon	Gallon	Gallon	Gallon	Gallon	Gallon
SETTLEMENT BASIS NAME	-	-	-	-	-	-	-	-	-	-	-	-
SETTLEMENT BASIS CODE	-	-	-	-	-	-	-	-	-	-	-	-
M6	AAQMM06	JHFBM06	DUJA006	AAQPK00	JVFBM06	DUJG006	AAQPX00	JIFBM06	DUJW006	AAQOM06	UUHBM06	DUDH006
M7	AAQMM07	JHFBM07	DUJA007	AAQPP00	JVFBM07	DUJG007	AAQPM07	JIFBM07	DUJW007	AAQOM07	UUHBM07	DUDH007
M8	AAQMM08	JHFBM08	DUJA008	AAQPQ00	JVFBM08	DUJG008	AAQPM08	JIFBM08	DUJW008	AAQOM08	UUHBM08	DUDH008
M9	AAQMM09	JHFBM09	DUJA009	AAQPR00	JVFBM09	DUJG009	AAQPM09	JIFBM09	DUJW009	AAQOM09	UUHBM09	DUDH009
M10	AAQMM10	JHFBM10	DUJA010	AAQQM10	JVFBM10	DUJG010	AAQPM10	JIFBM10	DUJW010	AAQOM10	UUHBM10	DUDH010
M11	AAQMM11	JHFBM11	DUJA011	AAQQM11	JVFBM11	DUJG011	AAQPM11	JIFBM11	DUJW011	AAQOM11	UUHBM11	DUDH011
M12	AAQMM12	JHFBM12	DUJA012	AAQQM12	JVFBM12	DUJG012	AAQPM12	JIFBM12	DUJW012	AAQOM12	UUHBM12	DUDH012
Q1	AAQOY00	JHFBQ01	DUJAQ01	AAQPL00	JVFBQ01	DUJGQ01	AAQPY00	JIFBQ01	DUJWQ01	AAQO000	UUHBQ01	DUDHQ01
Q2	AAQOZ00	JHFBQ02	DUJAQ02	AAQPM00	JVFBQ02	DUJGQ02	AAQPZ00	JIFBQ02	DUJWQ02	AAQOP00	UUHBQ02	DUDHQ02
Q3	AAQPA00	JHFBQ03	DUJAQ03	AAQPN00	JVFBQ03	DUJGQ03	AAQQA00	JIFBQ03	DUJWQ03	AAQOQ00	UUHBQ03	DUDHQ03
Q4	AAQPB00	JHFBQ04	DUJAQ04	AAQP000	JVFBQ04	DUJGQ04	AAQQB00	JIFBQ04	DUJWQ04	AAQOR00	UUHBQ04	DUDHQ04
YEAR 1	-	-	-	-	-	-	-	-	-	-	-	-
YEAR 2	-	-	-	-	-	-	-	-	-	-	-	-

**AMERICAS: REFINED OIL PRODUCTS (CRACK SPREAD)**

	USGC HSFO WTI Crack Derivs	USGC HSFO Brent Crack Derivs	USGC HSFO Dubai Crack Derivs	USAC 1% Fuel Oil WTI Crack Derivs	USAC 1% Fuel Oil Brent Crack Derivs	USAC 1% Fuel Oil Dubai Crack Derivs
CURRENCY	US\$	US\$	US\$	US\$	US\$	US\$
UOM	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels
SETTLEMENT BASIS NAME	-	-	-	-	-	-
SETTLEMENT BASIS CODE	-	-	-	-	-	-
M1	AAQSB00	F3BGM01	DUFG001	AAQQH00	F1BAM01	DUFA001
M2	AAQRJ00	F3BGM02	DUFG002	AAQQI00	F1BAM02	DUFA002
M3	AAQRK00	F3BGM03	DUFG003	AAQQJ00	F1BAM03	DUFA003
M4	AAQRL00	F3BGM04	DUFG004	AAQQL00	F1BAM04	DUFA004
M5	AAQRM00	F3BGM05	DUFG005	AAQQM00	F1BAM05	DUFA005
M6	AAQRN00	F3BGM06	DUFG006	AAQQN00	F1BAM06	DUFA006
M7	F3WCM07	F3BGM07	DUFG007	F1WCM07	F1BAM07	DUFA007
M8	F3WCM08	F3BGM08	DUFG008	F1WCM08	F1BAM08	DUFA008
M9	F3WCM09	F3BGM09	DUFG009	F1WCM09	F1BAM09	DUFA009
M10	F3WCM10	F3BGM10	DUFG010	F1WCM10	F1BAM10	DUFA010

**AMERICAS: REFINED OIL PRODUCTS (CRACK SPREAD)**

	USGC HSFO WTI Crack Derivs	USGC HSFO Brent Crack Derivs	USGC HSFO Dubai Crack Derivs	USAC 1% Fuel Oil WTI Crack Derivs	USAC 1% Fuel Oil Brent Crack Derivs	USAC 1% Fuel Oil Dubai Crack Derivs
CURRENCY	US\$	US\$	US\$	US\$	US\$	US\$
UOM	Barrels	Barrels	Barrels	Barrels	Barrels	Barrels
SETTLEMENT BASIS NAME	-	-	-	-	-	-
SETTLEMENT BASIS CODE	-	-	-	-	-	-
M11	F3WCM11	F3BGM11	DUFG011	F1WCM11	F1BAM11	DUFA011
M12	F3WCM12	F3BGM12	DUFG012	F1WCM12	F1BAM12	DUFA012
Q1	AAQRO00	F3BGQ01	DUFGQ01	AAQQ000	F1BAQ01	DUFAQ01
Q2	AAQRP00	F3BGQ02	DUFGQ02	AAQQP00	F1BAQ02	DUFAQ02
Q3	AAQRQ00	F3BGQ03	DUFGQ03	AAQQQ00	F1BAQ03	DUFAQ03
Q4	AAQRR00	F3BGQ04	DUFGQ04	AAQQR00	F1BAQ04	DUFAQ04
YEAR 1	AAQRS00	F3BGY01	DUFGY01	AAQQS00	F1BAY01	DUFAY01
YEAR 2	AAQRT00	F3BGY02	DUFGY02	AAQQT00	F1BAY02	DUFAY02

**AMERICAS: REFINED OIL PRODUCTS (TIME SPREAD)**

	USGC Propane Time Spread Derivs	RBOB Frontline Time Spread Derivs	USGC Gasoline Time Spread Derivs	USWC Gasoline Time Spread Derivs	ULSD Frontline Time Spread Derivs	USAC Jet Time Spread Derivs	USGC Jet Time Spread Derivs	USWC Jet Time Spread Derivs	USGC ULSD Time Spread Derivs	USGC HSFO Time Spread Derivs	USGC Marine Fuel 0.5% Time Spread Derivs	USAC 1% Fuel Oil Time Spread Derivs
CURRENCY	US Cents	US Cents	US Cents	US Cents	US Cents	US Cents	US Cents	US Cents	US Cents	US\$	US\$	US\$
UOM	Gallon	Gallon	Gallon	Gallon	Gallon	Gallon	Gallon	Gallon	Gallon	Barrels	Barrels	Barrels
SETTLEMENT BASIS NAME	-	-	-	-	-	-	-	-	-	-	-	-
SETTLEMENT BASIS CODE	-	-	-	-	-	-	-	-	-	-	-	-
M1/M2	LPM0102	RBM0102	GRM0102	CRM0102	HOM0102	JHM0102	JTM0102	JJM0102	UHM0102	F3M0102	AUSA102	F1M0102
M2/M3	LPM0203	RBM0203	GRM0203	CRM0203	HOM0203	JHM0203	JTM0203	JJM0203	UHM0203	F3M0203	AUSA203	F1M0203
M3/M4	-	RBM0304	GRM0304	CRM0304	HOM0304	JHM0304	JTM0304	JJM0304	UHM0304	F3M0304	AUSA304	F1M0304
M4/M5	-	RBM0405	GRM0405	CRM0405	HOM0405	JHM0405	JTM0405	JJM0405	UHM0405	F3M0405	AUSA405	F1M0405
M5/M6	-	RBM0506	GRM0506	CRM0506	HOM0506	JHM0506	JTM0506	JJM0506	UHM0506	F3M0506	AUSA506	F1M0506
M6/M7	-	RBM0607	GRM0607	CRM0607	HOM0607	JHM0607	JTM0607	JJM0607	UHM0607	F3M0607	AUSA607	F1M0607
M7/M8	-	RBM0708	GRM0708	CRM0708	HOM0708	JHM0708	JTM0708	JJM0708	UHM0708	F3M0708	AUSA708	F1M0708
M8/M9	-	RBM0809	GRM0809	CRM0809	HOM0809	JHM0809	JTM0809	JJM0809	UHM0809	F3M0809	AUSA809	F1M0809
M9/M10	-	RBM0910	GRM0910	CRM0910	HOM0910	JHM0910	JTM0910	JJM0910	UHM0910	F3M0910	AUSA910	F1M0910
M10/M11	-	RBM1011	GRM1011	CRM1011	HOM1011	JHM1011	JTM1011	JJM1011	UHM1011	F3M1011	AUS1011	F1M1011
M11/M12	-	RBM1112	GRM1112	CRM1112	HOM1112	JHM1112	JTM1112	JJM1112	UHM1112	F3M1112	AUS1112	F1M1112
M12/M13	-	RBM1213	-	-	HOM1213	-	-	-	-	-	-	-
M13/M14	-	RBM1314	-	-	HOM1314	-	-	-	-	-	-	-
M14/M15	-	RBM1415	-	-	HOM1415	-	-	-	-	-	-	-
M15/M16	-	RBM1516	-	-	HOM1516	-	-	-	-	-	-	-

**AMERICAS: REFINED OIL PRODUCTS (TIME SPREAD)**

	USGC Propane Time Spread Derivs	RBOB Frontline Time Spread Derivs	USGC Gasoline Time Spread Derivs	USWC Gasoline Time Spread Derivs	ULSD Frontline Time Spread Derivs	USAC Jet Time Spread Derivs	USGC Jet Time Spread Derivs	USWC Jet Time Spread Derivs	USGC ULSD Time Spread Derivs	USGC HSFO Time Spread Derivs	USGC Marine Fuel 0.5% Time Spread Derivs	USAC 1% Fuel Oil Time Spread Derivs
CURRENCY	US Cents	US Cents	US Cents	US Cents	US Cents	US Cents	US Cents	US Cents	US Cents	US\$	US\$	US\$
UOM	Gallon	Gallon	Gallon	Gallon	Gallon	Gallon	Gallon	Gallon	Gallon	Barrels	Barrels	Barrels
SETTLEMENT BASIS NAME	-	-	-	-	-	-	-	-	-	-	-	-
SETTLEMENT BASIS CODE	-	-	-	-	-	-	-	-	-	-	-	-
M16/M17	-	RBM1617	-	-	HOM1617	-	-	-	-	-	-	-
M17/M18	-	RBM1718	-	-	HOM1718	-	-	-	-	-	-	-
M18/M19	-	RBM1819	-	-	HOM1819	-	-	-	-	-	-	-
M19/M20	-	RBM1920	-	-	HOM1920	-	-	-	-	-	-	-
M20/M21	-	RBM2021	-	-	HOM2021	-	-	-	-	-	-	-
M21/M22	-	RBM2122	-	-	HOM2122	-	-	-	-	-	-	-
M22/M23	-	RBM2223	-	-	HOM2223	-	-	-	-	-	-	-
M23/M24	-	RBM2324	-	-	HOM2324	-	-	-	-	-	-	-
M24/M25	-	RBM2425	-	-	HOM2425	-	-	-	-	-	-	-
M25/M26	-	RBM2526	-	-	HOM2526	-	-	-	-	-	-	-
M26/M27	-	RBM2627	-	-	HOM2627	-	-	-	-	-	-	-
M27/M28	-	RBM2728	-	-	HOM2728	-	-	-	-	-	-	-
M28/M29	-	RBM2829	-	-	HOM2829	-	-	-	-	-	-	-
M29/M30	-	RBM2930	-	-	HOM2930	-	-	-	-	-	-	-
M30/M31	-	RBM3031	-	-	HOM3031	-	-	-	-	-	-	-
M31/M32	-	RBM3132	-	-	HOM3132	-	-	-	-	-	-	-
M32/M33	-	RBM3233	-	-	HOM3233	-	-	-	-	-	-	-
M33/M34	-	RBM3334	-	-	HOM3334	-	-	-	-	-	-	-
M34/M35	-	RBM3435	-	-	HOM3435	-	-	-	-	-	-	-
M35/M36	-	RBM3536	-	-	HOM3536	-	-	-	-	-	-	-
Q1/Q2	LPQ0102	RBQ0102	GRQ0102	CRQ0102	HOQ0102	JHQ0102	JTQ0102	JJQ0102	UHQ0102	F3Q0102	AUSB102	F1Q0102
Q2/Q3	-	RBQ0203	GRQ0203	CRQ0203	HOQ0203	JHQ0203	JTQ0203	JJQ0203	UHQ0203	F3Q0203	AUSB203	F1Q0203
Q3/Q4	-	RBQ0304	GRQ0304	CRQ0304	HOQ0304	JHQ0304	JTQ0304	JJQ0304	UHQ0304	F3Q0304	AUSB304	F1Q0304
Q4/Q5	-	RBQ0405	-	-	HOQ0405	-	-	-	-	-	-	-
Q5/Q6	-	RBQ0506	-	-	HOQ0506	-	-	-	-	-	-	-
Q6/Q7	-	RBQ0607	-	-	HOQ0607	-	-	-	-	-	-	-
Q7/Q8	-	RBQ0708	-	-	HOQ0708	-	-	-	-	-	-	-
Q8/Q9	-	RBQ0809	-	-	HOQ0809	-	-	-	-	-	-	-
Q9/Q10	-	RBQ0910	-	-	HOQ0910	-	-	-	-	-	-	-
Q10/Q11	-	RBQ1011	-	-	HOQ1011	-	-	-	-	-	-	-
Q11/Q12	-	RBQ1112	-	-	HOQ1112	-	-	-	-	-	-	-
Y1/Y2	-	RBQ0102	-	-	HOY0102	-	-	-	-	F3Y0102	-	F1Y0102
Y2/Y3	-	RBQ0203	-	-	HOY0203	-	-	-	-	-	-	-

## Americas

In the US, PFC oil assessments reflect a market on close value at 2:30 pm ET for all published forward curves.

### Crude oil

**WTI frontline derivatives:** These are calendar month derivatives that settle against the NYMEX light sweet crude futures contract. The derivative is financially settled using the settlement price of the futures contract on each trading day of the month, for whichever futures contract is most prompt on each day. Platts publishes the first 36 months, 12 quarters and three calendar years forward of WTI frontline derivatives in the US, as well as time spread derivatives

**Brent frontline derivatives:** These are calendar month derivatives that settle against the ICE Brent crude futures contract. The derivative is financially settled using the settlement price of the futures contract on each trading day of the month, for whichever futures contract is most prompt on each day (with the exception of the expiry day of the front-month futures contract, at which time the futures contract referenced is that of the second month). Platts publishes the first 36 months, 12 quarters and three calendar years forward of Brent frontline derivatives in the US.

**Dubai derivatives:** These assessments reflect the value of Dubai derivatives at the 2:30 pm ET US close. Dubai derivatives settle against the average of Platts front-month physical Dubai crude assessments over a calendar period. They reflect paper transactions with a minimum volume of 50,000 barrels. Platts publishes the first 36 months, four quarters and three calendar years forward of Dubai derivatives in the US.

**WTI-Brent derivatives:** These assessments settle against the difference between the frontline NYMEX light sweet crude derivatives contract and the frontline ICE Brent derivatives contract for a particular calendar period. For example, a WTI/

Brent derivative for calendar March will include settlements for crude futures from the April and May contract months, which both trade as frontline contracts at different times over the calendar month. During Q3, a WTI/Brent derivative would be financially settled using exchange settlements for crude futures in the August, September, October and November delivery months (all of the months which trade as frontline at different times during the calendar third quarter). Platts publishes the first 36 months, 12 quarters and three calendar years forward of WTI-Brent derivatives in the US.

**WTI-Dubai derivatives:** These assessments settle against the difference between the frontline NYMEX light sweet crude derivatives contract and the Dubai derivatives contract at the 2:30 pm ET close, for a particular calendar period. Platts publishes the first 36 months, 12 quarters and three calendar years forward of WTI-Dubai derivatives in the US.

### Refined oil products

**Propane derivatives:** Platts assesses USGC propane derivatives, which are published as outright values. The USGC propane derivative settles against physical assessments for Mont Belvieu, Texas, propane. Platts publishes USGC propane derivatives for the first three months and two quarters forward, as well as time spread derivatives.

**RBOB frontline derivatives:** These are calendar month derivatives that settle against the NYMEX RBOB futures contract. The derivative is financially settled using the settlement price of the prompt futures contract over a calendar period. Platts publishes the first 36 months, 12 quarters and three calendar years forward, as well as time spread derivatives.

**Gasoline derivatives:** Platts assesses US Gulf Coast and US West Coast gasoline derivatives, which are published as outright values as well as differentials to the RBOB frontline derivatives. The USGC gasoline outright derivative settles against the average of the Platts Gulf Coast conventional 87

grade gasoline prompt pipeline physical assessments over a calendar period, while the differential derivative settles against the difference between Platts Gulf Coast conventional 87 grade gasoline prompt pipeline physical assessments and the frontline NYMEX RBOB futures settlement price over a calendar period. The USWC gasoline outright derivative settles against the physical assessments of Los Angeles CARBOB gasoline prompt pipeline physical assessments over a calendar period, while the differential derivative settles against the difference between the Los Angeles CARBOB gasoline prompt pipeline physical assessments and the frontline NYMEX RBOB futures settlement price over a calendar period. Platts publishes USGC gasoline outright and differential derivatives for the balance-month, the first 12 months and the first four quarters forward. Platts publishes USWC gasoline outright and differential derivatives for the first 12 months and the first four quarters forward. Platts also publishes time spread derivatives and crack spread derivatives for USGC and USWC gasoline.

**ULSD frontline derivatives:** These are calendar month derivatives that settle against the NYMEX ULSD futures contract. The derivative is financially settled using the settlement price of the prompt futures contract over a calendar period. Platts publishes the first 36 months, 12 quarters and three calendar years forward, as well as time spread derivatives.

**Diesel derivatives:** Platts assesses US Gulf Coast ULSD derivatives, which are published as outright values as well as differentials to the ULSD frontline derivatives. The USGC ULSD outright derivative settles against the average of the Platts Gulf Coast ULSD prompt pipeline physical assessments over a calendar period, while the differential derivative settles against the difference between the Platts Gulf Coast ULSD prompt pipeline physical assessments and the frontline NYMEX ULSD futures settlement price over a calendar period. Platts publishes USGC ULSD outright and differential derivatives for the balance-month, the first 12 months and the first four quarters forward. Platts also publishes time spread derivatives and crack spread derivatives for USGC ULSD.

**Jet fuel derivatives:** Platts assesses US Gulf Coast, US Atlantic Coast and US West Coast jet fuel derivatives, which are published as outright values as well as differentials to the ULSD frontline derivatives. The USGC jet fuel outright derivative settles against the average of the Platts USGC jet kero 54 prompt pipeline physical assessments over a calendar period, while the differential derivative settles against the difference between the Platts USGC jet kero 54 prompt pipeline physical assessments and the frontline NYMEX ULSD futures settlement price over a calendar period. The USAC jet fuel outright derivative settles against the average of the Platts jet kero New York Harbor Buckeye Pipeline physical assessments over a calendar period, while the differential derivative settles against the difference between the Platts jet kero New York Harbor Buckeye Pipeline physical assessments and the frontline NYMEX ULSD futures settlement price over a calendar period. The USWC jet fuel outright derivative settles against the average of the Platts Los Angeles jet kero prompt pipeline physical assessments over a calendar period, while the differential derivative settles against

the difference between the Platts Los Angeles jet kero prompt pipeline physical assessments and the frontline NYMEX ULSD futures settlement price over a calendar period. Platts publishes USGC jet kero outright and differential derivatives for the balance-month, the first 12 months and the first four quarters forward. Platts publishes USAC and USWC jet kero outright and differential derivatives for the first 12 months and the first four quarters forward. Platts also publishes time spreads derivatives and crack spread derivatives for USGC, USAC and USWC gasoline.

**Fuel oil derivatives:** Platts assesses USGC HSFO, USAC 1%S fuel oil and hilo (1%-HSFO) derivatives, which are published as outright values. The USGC HSFO derivative settles against the average of Platts USGC HSFO physical assessments over a calendar period, while the USAC 1%S fuel oil derivative settles against the average of Platts No. 6 1% delivered New York Harbor assessments over a calendar period. The hilo (1%-HSFO) derivatives settle against the difference between the Platts

USGC HSFO physical assessments and the Platts No. 6 1% delivered New York Harbor assessments over a calendar period. Platts publishes the USGC HSFO, USAC 1%S fuel oil and hilo (1%-HSFO) derivatives for the first 12 months, four quarters and two years forward. Platts also publishes time spread derivatives and crack spread derivatives for USGC HSFO and USAC 1%S fuel oil.

**Marine fuel 0.5% derivatives:** Platts assesses Marine Fuel 0.5% derivatives on the US Gulf Coast. These are published as outright values and settle against the Platts USGC Marine Fuel 0.5% physical assessments over a calendar period. Platts publishes USGC Marine Fuel 0.5% derivatives assessments for the balance-month, the first 12 calendar months, the first four quarters and one calendar year forward. Platts also publishes the Marine Fuel 0.5% differential to USGC HSFO derivatives for the same period, and Marine Fuel 0.5% time spread derivatives.

## REVISION HISTORY

**September 2020:** Platts updated this guide to reflect the launch of balance month, Month 1 and Month 2 MOPAG naphtha derivatives, the launch of balance month MORJ naphtha derivatives, and the launch of balance month, Month 1 and Month 2 MOPAG 92 RON gasoline derivatives at the 1630 Singapore close from September 1, 2020. The tables for Asia Pacific refined oil products were updated to reflect the new symbol codes.

**June 2020:** Platts completed an annual review of the global Platts Forward Curve specifications guide. Platts reviewed all content and made minor edits to language. Platts updated this guide to reflect the discontinuation of balance month, Month 1 and Month 2 MOPAG 180 CST HSFO derivatives at the 1630 Singapore close from June 1, 2020. The tables for Asia Pacific refined oil products and refined oil products crack spreads were updated to reflect the correct symbol codes. Platts updated the table for EMEA crude and streamlined some of the text in crude and fuel sections.

**January 2020:** Platts updated this guide to reflect the launch of balance month, M1, M2 and M3 E10 gasoline swaps in Europe.

**September 2019:** Platts updated this guide to reflect the launch of Balance Month, Month 1 and Month 2 FOB Singapore 95 RON gasoline derivative assessments on September 2, 2019. July 2019: Platts has completed an annual update to this guide to reflect the launch of Marine Fuel 0.5% derivatives assessments globally on May 2, 2019. The Asia Pacific refined oil products tables were updated to include MOPAG derivatives, include additional fuel oil symbols and extraneous columns were removed. The Europe refined oil products tables were updated to include additional fuel oil symbols.

**May 2019:** Platts completed an annual update to sections 1 to 6 of Platts Methodology and Specifications Guides in April 2019,

and moved these sections into a standalone Methodology Guide. Platts added full forward curve assessment symbols for both ICE Brent (London and Houston close) and NYMEX WTI (London and Houston close) futures in addition to inserting a Futures Assessments text section that outlines Platts' methodology for these assessments.

**November 2018:** Platts added tables including Jet assessment symbols for Europe, updating and including symbols within Europe Refined Oil and Europe Refined Oil -Crack Spreads.

**August 2018:** Platts completed an annual review of the global Platts Forward Curve methodology and specifications guide, adding new sections I-VI. In Asia, Platts updated the sulfur level for the FOB Singapore Gasoil derivatives to 0.001% (10 ppm) from 0.05% (500 ppm) as of January 2, 2018. Platts also clarified the settlement details of gasoil frontline futures derivatives and Brent-Dubai derivatives in the Asia section. Platts corrected the unit of measurement for Asia fuel oil derivatives assessments and updated details of MOPAG derivatives in table. In the Americas, Platts updated the guide to reflect the launch of WTI-Dubai derivatives assessments; the launch of balance-month derivatives for US Gulf Coast conventional gasoline, jet fuel and ULSD; and the extension of the RBOB frontline derivative forward curve from April 2, 2018; as well as the discontinuation of US Gulf Coast heating oil derivative assessments from June 1, 2018.

**September 2017:** Platts completed an annual review of the Global Platts Forward Curve methodology and specifications guide. Platts reviewed all content and made minor edits to language. In the Americas, Platts added in language detailing existing assessments such as the RBOB and ULSD frontline derivatives, and updated the guide to reflect the change in the MOC timing in the Americas as well as the name change for the USGC HSFO assessment. Platts also added in tables detailing existing time spread, crack spread and differential derivatives assessments. Platts updated this guide to add MOPAG derivatives for gasoline, jet fuel, gasoil and 380-cst HSFO as well

as extended curves for Asian gasoline, reforming and related product crack derivatives assessments. Platts also added details and codes for several forward curve assessments published at 16:30 Singapore time for crude and refined oil products. In Europe, Platts updated this guide to reflect the addition of CPC CFDs, while language on refined products was clarified. Platts now describes financial instruments as derivatives rather than swaps in this guide.

**November 2015:** Platts updated this guide to add extended curves for Dated Brent-related derivatives assessments.

**June 2015:** Platts updated this guide to reflect the introduction of new assessments for ICE Low Sulfur Gasoil futures, FOB Rotterdam jet barge derivatives, East-West naphtha spreads and premium unleaded gasoline FOB Med cargo crack derivatives. Platts updated this guide to correct typos in the codes listed for FOB Singapore fuel oil and naphtha derivatives.

**March 2015:** Platts updated this guide to include new assessments for crude and gasoil futures at 16:30 Singapore time, MORJ naphtha, East-West naphtha, ICE Gasoil Frontline derivatives, Singapore Gasoil EFS, Singapore Gasoil ESS, East-West fuel oil, and European fuel oil and naphtha derivatives at 16:30 Singapore time. Platts included new assessments for FOB Mediterranean premium unleaded 10 ppm gasoline derivatives, which were launched on March 3, 2014, and specified that pre-existing European gasoline assessments are for Northwest Europe. This methodology guide was also updated to include further description of Platts processes and practices in survey assessment environments. Platts also made minor edits throughout.

**March, 2014:** Platts updated this guide to include new assessments for FOB Mediterranean premium unleaded 10 ppm gasoline derivatives, which were launched on March 3, 2014, and specified that pre-existing European gasoline assessments are for Northwest Europe.

**September 2013:** Platts revamped all Oil Methodology And Specifications Guides, including Global Platts Forward Curve guide, in August 2013. This revamp was completed to enhance the clarity and usefulness of all guides, and to introduce greater consistency of layout and structure across all published methodology guides. Methodologies for market coverage were not changed through this revamp, unless specifically noted in the methodology guide itself.

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