

☆RIM BUNKER OIL INTELLIGENCE DAILY

★No.9469 Aug 24 2023

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--TOKYO, 12:30 JST Aug 24 2023<Assessment Closing Time>

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○Rim to sell power tender data CD for fiscal year 2022 starting Jul 18

Rim Intelligence will sell the CD on power tender data for the fiscal year 2022 starting Jul 18. The CD will be the year 2022 version of power tender data, which is highly regarded by the industry since the first issue for the fiscal year 2014. The latest version is released only in Japanese and covers the tender results by public institutions across Japan during April 2022 and March 2023. The 2022 CD elaborates on a combined 4,165 tenders (4,583 tenders in the 2021 CD) and makes year-on-year comparisons for 956 tenders (3,230 tenders in the 2021 CD). For overseas customers outside of Japan, data in the CD will be emailed and payment can be made in US dollars. For application, please click:

<https://eng.rim-intelligence.co.jp/contents/info/powerDataCd2021eng.pdf>

○Rim releases English version of Rim Biomass Report

Rim intelligence publishes the English version of the Rim Biomass Report (Weekly) every Thursday. The report contains valued information on biomass fuels including wood pellets and PKS, for which demand is increasing in Northeast Asia such as Japan and South Korea. For your application, please click the link below or contact Rim Biomass Team.

<https://eng.rim-intelligence.co.jp/contents/info/biomassEnglishEn/>

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RECX-22 index for Thursday was 170.32, down 0.57 points from the previous day

-----Introduction of Rim reports-----

Please access the URL below for a lineup of Rim reports. You can view sample reports as well as detailed explanations on the contents:

<https://eng.rim-intelligence.co.jp/report/>

Lineup:

Bunker Oil	Crude/Condensate	Products	
LPG	Petrochemicals	Polyolefins	Biomass (Weekly)
LNG	Power	Daily Data	Rim Data File

For inquiries on the above, please contact: Tel: +81-3-3552-2411

Email: info@rim-intelligence.co.jp



◎North/South America						
— 23Aug23 Closing Quotes —						
Port/Location	380CST		VLSFO		LSMGO #	
	Low - High	Change	Low - High	Change	Low - High	Change
Vancouver BC*	579.00 - 582.00	-1.00	698.00- 701.00	-2.00	1,085.00-1,095.00	-5.00
Seattle/Tacoma*	566.00 - 569.00	-1.00	670.00- 673.00	0.00	1,095.00-1,105.00	-5.00
Los Angeles*	560.00 - 563.00	-1.00	660.00- 663.00	0.00	1,060.00-1,070.00	0.00
San Francisco*	NA - NA	-	670.00- 673.00	-5.00	1,085.00-1,095.00	+5.00
New York*	548.00 - 551.00	-12.00	616.00- 619.00	-10.00	950.00- 960.00	-10.00
Philadelphia*	560.00 - 563.00	-10.00	632.00- 635.00	-12.00	935.00- 945.00	-10.00
Norfolk*	582.00 - 585.00	-10.00	642.00- 645.00	-3.00	950.00- 960.00	-10.00
Houston*	520.00 - 523.00	-8.00	614.00- 617.00	-7.00	923.00- 933.00	-4.00
New Orleans*	502.00 - 505.00	-8.00	585.00- 588.00	-2.00	895.00- 905.00	-10.00
Panama*	522.00 - 525.00	-8.00	619.00- 622.00	-8.00	948.00- 958.00	-44.00
Paranagua*****	NA - NA	-	691.00- 692.00	-9.00	1,017.00-1,018.00	+8.00
R. D. Janeiro***	NA - NA	-	681.00- 682.00	-9.00	949.00- 950.00	+8.00
Rio Grande*****	NA - NA	-	686.00- 687.00	-9.00	1,018.00-1,019.00	+8.00
Santos****	NA - NA	-	636.00- 637.00	-9.00	984.00- 985.00	+8.00

--Note: In US DLRS/MT, *Ex-wharf, ***Posted Prices, #R. D. Janeiro (MGO)
**** Posted Prices, Santos (ULSMGO), ***** Posted Prices, Paranagua (LSMGO), ***** Posted Prices, Rio Grande (LSMGO)

◎Europe						
— 23Aug23 Closing Quotes —						
Port/Location	380CST		VLSFO		LSMGO	
	Low - High	Change	Low - High	Change	Low - High	Change
Rotterdam	552.00 - 555.00	+7.00	585.00- 588.00	-2.00	882.00- 892.00	+4.00
Antwerp	553.00 - 556.00	-4.00	585.00- 588.00	-5.00	872.00- 882.00	+4.00
Hamburg	576.00 - 579.00	-6.00	605.00- 608.00	-5.00	925.00- 935.00	-10.00
Gibraltar	553.00 - 556.00	-7.00	602.00- 605.00	-5.00	935.00- 945.00	+15.00
Algeciras	553.00 - 556.00	-7.00	602.00- 605.00	-5.00	935.00- 945.00	+15.00

--Note: In US DLRS/MT

◎Middle East/Africa						
— 23Aug23 Closing Quotes —						
Port/Location	380CST		VLSFO		LSMGO	
	Low - High	Change	Low - High	Change	Low - High	Change
Las Palmas	573.00 - 576.00	+12.00	617.00- 620.00	-2.00	955.00- 965.00	+20.00
Tenerife	573.00 - 576.00	+12.00	617.00- 620.00	-2.00	955.00- 965.00	+20.00
Kuwait	505.00 - 508.00	-8.00	610.00- 613.00	-7.00	912.00- 922.00	+12.00
Fujairah	505.00 - 508.00	-8.00	610.00- 613.00	-7.00	912.00- 922.00	+12.00

--Note: In US DLRS/MT

◎Asia						
— 23Aug23 Closing Quotes —						
Port/Location	380CST		VLSFO		LSMGO (LSMDO: Japan)	
	Low - High	Change	Low - High	Change	Low - High	Change
Tokyo Bay	597.00 - 600.00	-3.00	662.00- 665.00	+5.00	848.00- 858.00	-1.00
West Japan	603.00 - 606.00	-3.00	687.00- 690.00	+5.00	858.00- 868.00	-1.00
Ise Bay	602.00 - 605.00	-3.00	682.00- 685.00	+5.00	848.00- 858.00	-1.00
#Rim Average-Aug	604.24	-0.91	665.89	+1.52	848.48	-0.30
S. Korea	577.00 - 580.00	0.00	640.00- 643.00	+5.00	875.00- 885.00	+5.00
F. E. Russia	492.00 - 495.00	-10.00	573.00- 576.00	0.00	741.00- 751.00	0.00
Taiwan Kaohsiung PP***	603.00 - 606.00	-5.00	666.00- 669.00	-10.00	961.00- 964.00	-20.00

Taiwan Keelung PP***	NA - NA	-	666.00- 669.00	-10.00	961.00- 964.00	-20.00
Taiwan Taichung PP***	NA - NA	-	666.00- 669.00	-10.00	961.00- 964.00	-20.00
Taiwan Others PP***	NA - NA	-	666.00- 669.00	-10.00	961.00- 964.00	-20.00
Shanghai	565.00 - 568.00	-3.00	633.00- 636.00	0.00	940.00- 950.00	+17.00
Zhoushan	560.00 - 563.00	-2.00	628.00- 631.00	+1.00	920.00- 930.00	+12.00
Hong Kong	557.00 - 560.00	-13.00	635.00- 638.00	-10.00	915.00- 925.00	+35.00
Singapore	553.00 - 556.00	-4.00	622.00- 625.00	-7.00	880.00- 890.00	+5.00
Bangkok	572.00 - 575.00	-5.00	635.00- 638.00	-9.00	925.00- 935.00	+15.00
Colombo	NA - NA	-	657.00- 660.00	-8.00	985.00- 995.00	+15.00

--Note: In US DLRS/MT, *Nakhodka, Vostochny, Vladivostok, ***Posted Prices

#Rim Tokyo Bay monthly average

©Feature Stories

○Alternative Bunker Fuel Oils

LNG bunkering prices — 23Aug23 Closing Quotes —

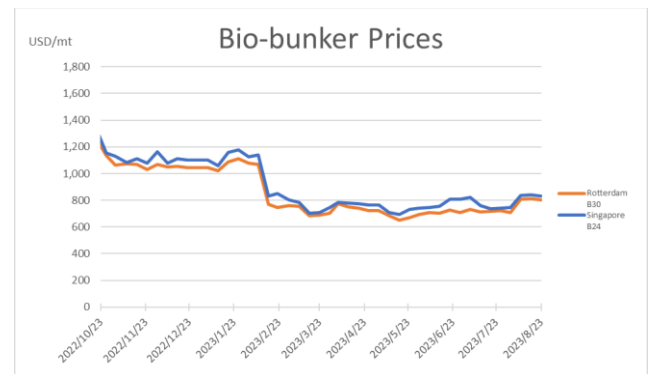
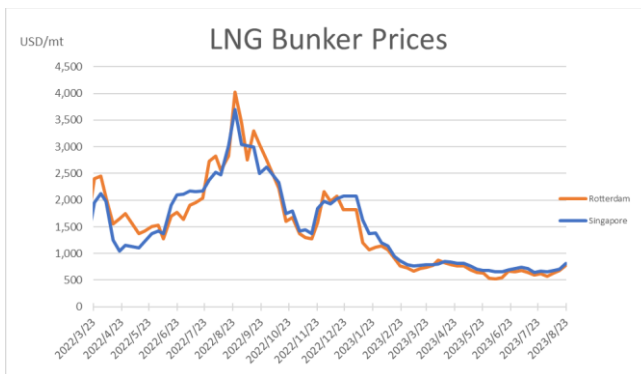
Port/Location	Change#	Low	High	Change#
Rotterdam	+93	740	820	+93
Singapore	+108	775	855	+108

--Note: In US DLRS/MT, #from the previous week

Bio-bunkers prices — 23Aug23 Closing Quotes —

Port/Location	Change#	Low	High	Change#
Rotterdam B30	-7	770	840	-7
Singapore B24	-6	798	868	-6

--Note: In US DLRS/MT, #from the previous week



Rotterdam market skyrockets with expected demand increases for LNG bunkers and LNG for power generation

LNG bunker prices for first-half September delivery in the spot market in Rotterdam were at \$740.00-820.00/mt, skyrocketing from the previous week. LNG prices in Europe and the Netherlands' TTF soared on the heels of brisk demand and thin supply. In Europe, cooling water for power plants had decreased on the back of heat waves. The water levels of the Rhone in France and the Rhine in

Germany were falling amid a rise in water temperatures.

Additionally, fuel oil supply also was slashed owing to low refinery run rates. Under these circumstances, LNG demand for power generation climbed in Europe. There were growing concerns about supply tightness as workers were expected to go on strikes at LNG export terminals in Australia.



Meanwhile, LNG bunker demand was strong. French energy company TotalEnergies reportedly supplied 2,900 mt of LNG bunkers the VLCC “Antonis Angelicoussis” under its charter at Rotterdam port. An LNG barge owned by Gas Agility was used to supply the bunker by ship-to-ship operations. Bullish factors were dominant in the LNG bunker market as orders were increasing both via long-term contracts and on a spot basis.

Singapore market jumps along with firm European trends; NYK’s car carrier receives LNG bunker

LNG bunker prices for October delivery in Singapore were at \$775-855/mt, jumping from the previous week. LNG prices in Northeast Asia surged as LNG cargo players were making moves to procure cargoes ahead of the peak winter demand season amid tight supply/demand fundamentals. Generally, supply/demand balance was tightening since LNG demand for power generation was brisk amid high temperatures in Asia.

Meanwhile, oil major Shell supplied LNG bunker to NYK Line’s car carrier “Jasmine Leader”. The LNG bunker was delivered by FueLNG’s LNG bunker fuel barge “FueLNG Bellina” by ship-to-ship transfer. Further, simultaneous operation (SIMOPS) was carried out whereby both loading-and-unloading of vehicles or trucks and bunkering were progressing at the same time. FueLNG is a joint venture between Keppel Offshore & Marine and Shell Eastern Petroleum.

There were growing hopes of further brisk demand as existing LNG-fueled vessel demand was expanding amid progress in LNG-fueled shipbuilding in China and South Korea.

Bio-bunkers market: spread with soaring LNG bunker prices narrows Aug 23

Indications for VLSFO with a bio-mix of a maximum of 30% in Rotterdam were at \$770.00-840.00/mt and indications with a bio-mix of a maximum of 24% in Singapore were at \$798.00-868.00/mt, both weakening from the previous week.

Due to soaring LNG bunker prices, the price difference between LNG bunkers and bio-bunkers narrowed.

According to Rim Bunker Oil Report, LNG bunker prices for first-half September delivery in Rotterdam were at \$740.00-820.00/mt and LNG bunker prices for October delivery in Singapore were at \$775-855/mt. Additionally, prices for VLSFO with a sulfur content of less than 0.5% in Rotterdam and Singapore as of Aug 23 were at \$585.00-588.00/mt and \$622.00-625.00/mt, respectively.

Bio-fuel prices declined in line with lower palm oil prices in Malaysia and Indonesia. In addition, the current fall in VLSFO prices also led to both bio-bunker prices in Rotterdam and Singapore being lower. However, bio-fuel prices remained in the high range compared to other alternative fuels.

China's palm oil imports from Indonesia in 2023 were expected to reach approximately 8 mil tons, the same level as before the COVID-19 pandemic. There were growing views that the volume of used cooking oil (UCO) would increase in China. However, prices of UCO including Used Cooking Oil Methyl Ester (UCOME) could hover high despite growing concerns that prices would decline due to increasing supply of UCO.

Furthermore, the sharp rise in LNG bunker prices could trigger a sense of undervalue for bio-bunker prices. Hence, demand for bio-bunkers was likely to grow further. In regions such as China, Singapore, Hongkong and Japan, it is common to for vessels smaller than handy-size that could not install deck tankers to apply slow steaming operations or use bio-bunkers for environmental reasons. This supported demand for bio-bunkers, sources pointed out.

US oil company Phillips 66 and grain trading company Archer-Daniels-Midland (ADM) were reportedly negotiating to establish a new bio-fuel joint venture to convert high-cost refineries to facilities producing low-carbon bio-fuels such as



sustainable aviation fuel (SAF). This was seen as one of the compromises between the petroleum industry and the corn-based ethanol industry, which had been at odds for many years.

Meanwhile, Phillips 66 would convert facilities of the Rodeo Refinery in California into one of the

world's largest renewable fuel refineries, set to begin operation in 2024. The refinery will no longer process crude oil and instead use waste oils fats greases and vegetable oils to produce an initial 800 million gallons per year (50,000 barrels per day) of renewable transportation fuels, including renewable diesel, renewable gasoline, and SAF.

◎MARKET COMMENTARY

○Round Up

On Aug 23, bunker fuel oil prices dropped in the primary ports reflecting weak crude oil prices.

WTI crude futures on the NYMEX slipped on Wednesday. The front-month October contract was down 75cts from the previous day to \$78.89/bbl. The contract was 13cts lower than one week ago.

Crude futures were under selling pressure on growing recession concerns in US and Europe amid continued interest-rate hikes to combat inflation. U.S. major financial service S&P Global said on Wednesday that its U.S. Composite Purchasing Managers' Index (PMI) fell to a reading of 50.4 in August, hitting the lowest level since February this year. Similarly, Eurozone's composite PMI Index in August slumped to the lowest level in two years and nine months while British's PMI Index also declined

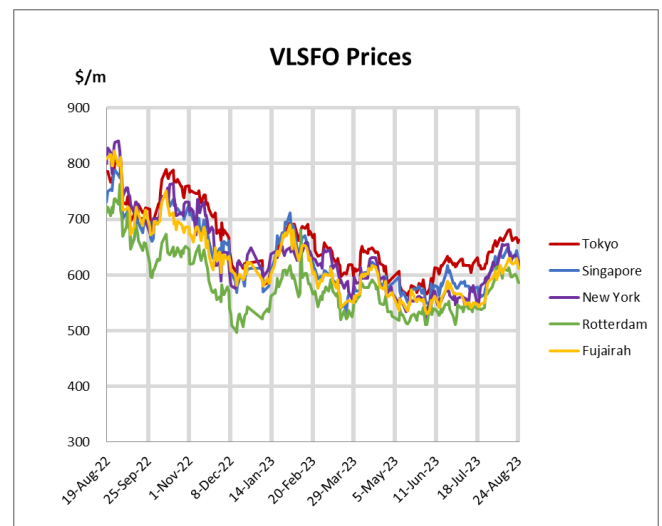
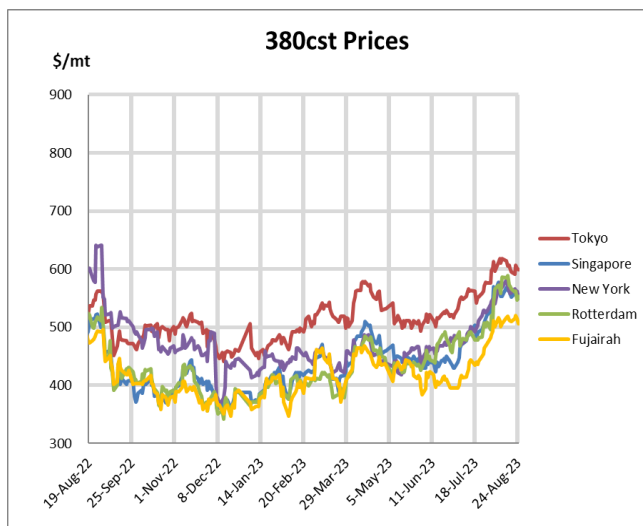
to the lowest level in two years and seven months. Those readings fell below the 50 level, separating expansion and contraction. These disappointing economic indicators deepened a sense of uncertainties about global economy, generating caution of shrinking energy demand and triggering selling in crude futures. Falls in crude futures were, however, limited. Weekly inventory data released from the Energy Information Administration (EIA) showed US crude inventories as of late last week declined. The scale of the decline was larger than market expectations, raising concerns over tight demand/supply fundamentals.

North Sea Brent futures on the ICE slipped further. The October contract was down 82cts from the previous day at \$83.21. The contract was 24cts lower than one week ago.

Aug 23 settlement prices

NYMEX • WTI OCT : \$78.89/bbl (down \$0.75/bbl versus a day before)

ICE • BRENT OCT : \$83.21/bbl (down \$0.82/bbl versus a day before)



**OVancouver BC**

The price for 380cst in Vancouver BC was in the range of \$579.00-582.00/mt, weakening by \$1.00/mt from the previous day along with weak crude oil prices. Marine Petrobulk (MPB) showed offers at in the range of \$579.00-600.00/mt.

The price for VLSFO with a sulfur content of less than 0.5% was in the range of \$698.00-

701.00/mt, weakening by \$2.00/mt from the previous day reflecting weak crude oil prices. MPB set offers at \$698.00-710.00/mt.

The price for LSMGO was in the range of \$1,085.00-1,095.00/mt, softening by \$5.00/mt from the previous day mirroring weak crude oil prices. MPB posted offers at \$1,085.00-1,121.00/mt.

OUSWC

The price for 380cst in Seattle was in the range of \$566.00-569.00/mt, weakening by \$1.00/mt from the previous day with a fall in crude oil prices. The price for VLSFO with a sulfur content of less than 0.5% was in the range of \$670.00-673.00/mt, flat from the previous day. The price for LSMGO was in the range of \$1,095.00-1,105.00/mt, edging down by \$5.00/mt from the previous day following weak crude oil prices.

The price for 380cst in Los Angeles was in the range of \$560.00-563.00/mt, slightly down by \$1.00/mt from the previous day tracking weak crude

oil prices. The price for VLSFO with a sulfur content of less than 0.5% was in the range of \$660.00-663.00/mt and the price for LSMGO was in the range of \$1,060.00-1,070.00/mt, showing no changes from the previous day.

The price for VLSFO with a sulfur content of less than 0.5% in San Francisco was in the range of \$675.00-673.00/mt, weakening by \$5.00/mt from the previous day tracking bearish crude oil prices and the price for LSMGO was in the range of \$1,085.00-1,095.00/mt rebounding by \$5.00/mt from the previous day on setback in selling pressure.

OUSEC

The price for 380cst in New York was in the range of \$548.00-551.00/mt, slipping by \$12.00/mt, the price for VLSFO with a sulfur content of less than 0.5% was in the range of \$616.00-619.00/mt, declining by \$10.00/mt, and the price for LSMGO was in the range of \$950.00-960.00/mt, falling by \$10.00/mt from the previous day.

The price for 380cst in Philadelphia was in the range of \$560.00-563.00/mt, declining by \$10.00/mt, the price for VLSFO with a sulfur content of less than 0.5% was in the range of \$632.00-635.00/mt, dropping by \$12.00/mt, and

the price for LSMGO was in the range of \$935.00-945.00/mt, weakening by \$10.00/mt from the previous day.

The price for 380cst in Norfolk was in the range of \$582.00-585.00/mt, dropping by \$10.00/mt, the price for VLSFO with a sulfur content of less than 0.5% was in the range of \$642.00-645.00/mt, weakening by \$3.00/mt, and the price for LSMGO was in the range of \$950.00-960.00/mt, declining by \$10.00/mt from the previous day. All price drops were attributed to weak crude oil prices.

**OUSGC**

The price for 380cst in Houston was in the range of \$520.00-523.00/mt, dropping by \$8.00/mt, the price for VLSFO with a sulfur content of less than 0.5% was in the range of \$614.00-617.00/mt, weakening by \$7.00/mt, and the price for LSMGO was in the range of \$923.00-933.00/mt, softening by \$4.00/mt from the previous day tracking weak crude oil prices.

The price for 380cst in New Orleans was in the range of \$502.00-505.00/mt, diving by \$8.00/mt, the price for VLSFO with a sulfur content of less than 0.5% was in the range of \$585.00-588.00/mt, falling by \$2.00/mt, the price for LSMGO was in the range of \$895.00-905.00/mt, dropping by \$10.00/mt from the previous day with a fall in crude oil prices.

ONWE

The price for 380cst in Rotterdam, the Netherlands was in the range of \$552.00-555.00/mt, increasing by \$7.00/mt from the previous day as retreating selling pressure sent prices higher. The price for VLSFO with a sulfur content of less than 0.5% was in the range of \$585.00-588.00/mt, weakening by \$2.00/mt from the previous day reflecting weak crude oil prices. The price for LSMGO was in the range of \$882.00-892.00/mt, gaining by \$4.00/mt from the previous day on setback in selling pressure.

Talks on August delivery in the Rotterdam market ended in the spot market reflecting a fall in bunker fuel oil inventories. As previously mentioned, supply/demand fundamentals were tightening in the region on the back of imported cargo inflow falls from the Middle East and the US. Amid the suspension of imports of petroleum products from Russia, supply/demand balance tightness had been attributed to low operating rates of refineries caused by shortages of cooling water due to heat waves. There were growing views that bunker fuel oil supply from major oil companies would hardly be distributed in the spot market since talks of September delivery were expected to remain tight. At the same time, some

independent sellers set the earliest delivery of VLSFO on Sep 10 onwards. Nevertheless, the fundamentals were expected to be loosened in talks for second-half half September delivery as inventories were on the rise of fuel oil and gasoil in the US.

The price for 380cst in Antwerp, Belgium was in the range of \$553.00-556.00/mt, edging down by \$4.00/mt and the price for VLSFO with a sulfur content of less than 0.5% was in the range of \$585.00-588.00/mt, softening by \$5.00/mt from the previous day along with weak crude oil prices. The price for LSMGO was in the range of \$872.00-882.00/mt, gaining by \$2.00/mt from the previous day as receding selling pressure sent prices higher.

The price for 380cst in Hamburg, Germany was in the range of \$576.00-579.00/mt, softening by \$6.00/mt, the price for VLSFO with a sulfur content of less than 0.5% was in the range of \$605.00-608.00/mt, falling by \$5.00/mt, and the price for LSMGO was in the range of \$925.00-935.00/mt, declining by \$10.00/mt from the previous day in reaction to weaker crude oil prices.

**OGibraltar/Algeciras**

The price for 380cst in British Gibraltar was in the range of \$553.00-556.00/mt, declining by \$7.00/mt and the price for VLSFO with a sulfur content of less than 0.5% was in the range of \$602.00-605.00/mt, edging down by \$5.00/mt from the previous day reflecting weak crude oil prices. The price for LSMGO was in the range of \$935.00-945.00/mt, rebounding by \$15.00/mt from the previous day on setback in selling pressure.

The price for 380cst in Algeciras, Spain was in the range of \$553.00-556.00/mt, declining by \$7.00/mt and the price for VLSFO with a sulfur content of less than 0.5% was in the range of \$602.00-605.00/mt, edging down by \$5.00/mt from the previous day reflecting weak crude oil prices. The price for LSMGO was in the range of \$935.00-945.00/mt, rebounding by \$15.00/mt from the previous day on setback in selling pressure.

OFujairah

The price for 380cst in Fujairah, the United Arab Emirates was in the range of \$505.00-508.00/mt, slipping by \$8.00/mt from the previous day along with weak Singapore fuel oil paper swap values. Offers were cast at \$505.00-524.00/mt.

The price for VLSFO with a sulfur content of less than 0.5% was in the range of \$610.00-613.00/mt, declining by \$7.00/mt from the

previous day in reaction to weaker Singapore 0.5%S fuel oil paper swap values. Offers were heard at \$610.00-625.00/mt.

The price for LSMGO was in the range of \$912.00-922.00/mt, rebounding by \$12.00/mt from the previous day on setback in selling pressure. Offers were posted at \$912.00-940.00/mt.

OJapan

The price for 380cst in Tokyo Bay, Japan, was in the range of \$597.00-600.00/mt, down \$3.00/mt from a day before with a fall in the fuel oil paper swaps values in Singapore. Offers were heard at \$600.00-603.00/mt. For September delivery, offers were heard at \$573.00-575.00/mt.

The price for VLSFO in Tokyo Bay, Japan, was in the range of \$662.00-665.00/mt, up \$5.00/mt from a day before as selling pressures retreated. Offers were heard at \$665.00-670.00/mt. As a fire broke out at ENEOS's Mizushima B refinery, the company suspended shipments for Thursday. A market source said that shipments on Thursday onward had yet to be unclear. The refiner already suspended to take fresh orders until Sep 4 and Idemitsu Kosan had already finished sales from

its Chiba refinery within August. Therefore, some supplies had already been away from the August market. For delivery in September, offers were posted at \$655.00-658.00/mt in Tokyo Bay, while \$645.00-665.00/mt in West Japan. The price gap between the areas was widening.

The price for LSMDO in Tokyo Bay, Japan, was at \$848.00-858.00/mt, down \$1.00/mt from a day before with a fall in the gasoil paper swaps values in Singapore. Offers were heard at \$858.00-868.00/mt. ENEOS and Idemitsu cut their wholesale price for 0.5% sulfur A-type fuel oil by 500yen/kl applied on Thursday onward. Meanwhile, the government subsidy was down by 2,100yen/kl from the current 12,100yen/kl to 10,000yen/kl. It added up to a rise by



1,600yen/kl. Foreign vessels were exempt from the subsidy. The monthly average of VLSFO of

Rim Intelligence for August was at \$665.89/mt, up \$42.91/mt from the previous month.

○South Korea

The price for 380cst in South Korea was in the range of \$577.00-580.00/mt, unchanged from a day before. A joint enterprise offered for August delivery at \$580.00-583.00/mt and for September delivery at \$546.00-549.00/mt.

The price for VLSFO with a sulfur content of less than 0.5% was in the range of \$640.00-643.00/mt, up \$5.00/mt from a day before as selling pressures retreated. A conglomerate

company offered at \$640.00-643.00/mt, a former zaibatsu company at \$650.00-653.00/mt, and a petroleum processing company at \$655.00-658.00/mt.

The price for LSMGO with a sulfur content of less than 0.1% was in the range of \$875.00-885.00/mt, up \$5.00/mt from a day before as selling pressures retreated. The conglomerate company set its offers at \$885.00-895.00/mt.

○F.E.Russia

The price for 380cst in Far East Russia was in the range of \$492.00-495.00/mt, sharply down by \$10.00/mt from a day before due to growing selling pressure. Offers were heard in the range of \$492.00-505.00/mt.

The price for VLSFO with a sulfur content of less than 0.5% was in the range of \$573.00-

576.00/mt, flat from a day before. Offers were cast at \$576.00-577.00/mt.

The price for LSMGO with a sulfur content of less than 0.1% was in the range of \$741.00-751.00/mt, unchanged from the previous day. Offers were heard in the range of \$751.00-763.00/mt.

○China

The price for 380cst in Zhoushan, China was in the range of \$560.00-563.00/mt, edging down by \$2.00/mt from a day before with a fall in Singapore fuel oil paper swap values. Offers were heard in the range of \$560.00-573.00/mt.

The price for VLSFO with a sulfur content of less than 0.5% was in the range of \$628.00-631.00/mt, gaining by \$1.00/mt from the previous day on setback in selling pressure. Offers were cast in the range of \$628.00-639.00/mt. Parcels with a total of more than 500 mt for delivery on Aug 26 onwards were traded at a premium of \$16-32/mt to Singapore 0.5%S fuel oil future prices on Wednesday. The premium widened by \$3/mt from a day before.

A fall in bunker fuel oil prices in Zhoushan was limited along with a heightening sense of supply tightness. Bunker fuel oil deliveries had been delayed since Aug 22 due to the rough weather. However, the earliest delivery of VLSFO would be within three days after inquiries. Prices were slightly supported by bullish factors such that supply volume for bonded bunker was expected to decline for prioritizing domestic demand.

The price for LSMGO was in the range of \$920.00-930.00/mt, rebounding by \$12.00/mt from a day earlier on tight supply/demand fundamentals. Offers were posted in the range of \$920.00-945.00/mt.

**OHong Kong**

The price for 380cst in Hong Kong was in the range of \$557.00-560.00/mt, declining by \$13.00/mt from a day earlier with a fall in Singapore fuel oil prices. Offers were posted in the range of \$560.00-569.00/mt.

The price for VLSFO with a sulfur content of less than 0.5% was in the range of \$635.00-638.00/mt, slipping by \$10.00/mt from the

previous day in reaction to weaker Singapore 0.5%S fuel oil paper swap values. Offers were cast in the range of \$635.00-658.00/mt.

The price for LSMGO was in the range of \$915.00-925.00/mt, soaring by \$35.00/mt from a day before on the heels of tight supply/demand fundamentals. Offers were heard in the range of \$915.00-948.00/mt.

OSingapore

The price for 380cst in Singapore was in the range of \$553.00-556.00/mt, weakening by \$4.00/mt from a day before reflecting weak Singapore fuel oil paper swap values. Offers were heard in the range of \$553.00-570.00/mt.

The price for VLSFO with a sulfur content of less than 0.5% was in the range of \$622.00-625.00/mt, slipping by \$7.00/mt from the previous day in reaction to weaker Singapore 0.5%S fuel oil paper swap values. Offers were cast at in the range of \$622.00-643.00/mt. Parcels with a total of more than 500 mt for delivery on Aug 31 onwards were traded at a premium of \$15-23/mt to Singapore 0.5%S fuel oil future prices on Wednesday, showing no changes from the previous day.

Talks were shifting from August delivery to September delivery. With heightening concerns on a decline in imported cargo inflows, there were growing views that prices for September delivery

would slightly get higher than the current level. In addition, some shipping companies were expected to increase procurement volumes at the Singapore port owing to worries that the bad weather such as typhoons could hit major ports in Northeast Asia from September. Depending on the volumes of imported cargoes from Europe and the Middle East, a sense of tightness was likely to remain until the first-half September delivery. As previously mentioned, exports of VLSFO and its feedstocks were going to fall since low refining utilization rates in Europe and refineries' troubles in the Middle East. Nevertheless, prices were unlikely to surge as procurement volumes were generally low due to slow-steaming operation.

The price for LSMGO was in the range of \$880.00-890.00/mt, rising by \$5.00/mt from a day earlier on the heels of tight supply/demand fundamentals. Offers were posted in the range of \$880.00-905.00/mt.

©POSTING ADJUSTMENT**OBrazil Petrobras revises official prices as of 08:10 on Aug 23**

Petrobras in Brazil cut official prices for VLSFO with a sulfur content of less than 0.5% by \$3.00/mt as of 08:10 on Aug 23. On the other hand, official price for MGO in the port of Rio De Janeiro, official prices for ULSMGO with a sulfur content of less than 0.1% delivered in the port of Santos, official prices for LSMGO with a sulfur content of less than 0.1% delivered in the port of Paranagua and Rio Grande were raised by \$8.00/mt. Prices in main ports are shown in below.



	VLSFO 0.5%S	MGO
Paranagua (LSMGO)	697.00-698.00	1,017.00-1,018.00
Rio De Janeiro	687.00-688.00	949.00-950.00
Rio Grande (LSMGO)	692.00-693.00	1,018.00-1,019.00
Santos (ULSMGO)	642.00-643.00	984.00-985.00

○Brazil Petrobras revises official prices as of 11:50 on Aug 23

Petrobras in Brazil cut official prices for VLSFO with a sulfur content of less than 0.5% by \$6.00/mt as of 11:50 on Aug 23. On the other hand, official price for MGO in the port of Rio De Janeiro, official prices for ULSMGO with a sulfur content of less than 0.1% delivered in the port of Santos, official prices for LSMGO with a sulfur content of less than 0.1% delivered in the port of Paranagua and Rio Grande were cut by \$3.00/mt. Prices in main ports are shown in below.

	VLSFO 0.5%S	MGO
Paranagua (LSMGO)	691.00-692.00	1,017.00-1,018.00
Rio De Janeiro	681.00-682.00	949.00-950.00
Rio Grande (LSMGO)	686.00-687.00	1,018.00-1,019.00
Santos (ULSMGO)	636.00-637.00	984.00-985.00

○Taiwan CPC revises official prices on Aug 24

CPC in Taiwan cut official prices for bunker fuel oil (380cst& LS180cst) by \$10.00/mt on Aug 24. Nonetheless, official prices for LSMGO with a sulfur content of less than 0.1% were sustained. Prices in main ports are shown below.

	380cst	180cst (0.5%S)	LSMGO (0.1%S)
Kaohsiung	596.00	659.00	964.00
Keelung	n. a.	659.00	964.00
Taichung	n. a.	659.00	964.00
Others	n. a.	659.00	964.00

◎MARKET NEWS**○China oil products oil retail prices go up**

According to the National Development and Reform Commission, since the midnight on Aug 24, 2023, the domestic gasoline and gasoil prices would be raised by Yuan 55/mt (7.643/mt). In 2023, the total adjustment range is an increase by Yuan 670/mt for gasoline and by Yuan 645/mt for gasoil.

Chinese government adjusts controlled retail prices based on the volatility of crude oil prices in international markets for the past 10 days.



2023 China State-Owned refinery maintenance schedules (revised)				
Refinery	Period	Units	Capacity (10,000/year)	Province
SINOPEC				
Zhenhai	Mar10-May 5	No.3 CDU(10mil mt/year)	2,300	Zhejiang
Jinling	Apr10-May20	No.3 CDU (8.0 mil mt/year)	1,800	Jiangsu
Luoyang	May 15-early Jul	all units	1,000	Henan
Qingdao	May16-Jul9	all units	1,000	Shandong
Zhanjiang Toxing	early Oct to early Dec	all units	500	Guangdong
Guangzhou	mid Oct to early Dec	No.1 CDU 5.2 mil mt/year	1,350	Guangdong
PETROCHINA				
Changqing	Apr 1-May 25	all units	500	Shaanxi
Liaoyang	Apr 10-May 28	all units	900	Liaoning
Urumqi	Apr 15- Jun 18	all units	1,000	Xinjiang
Daqing Petchem	mid Jun to late Jul	all units	1,000	Heilongjiang
Lanzhou	mid Jun to early Aug	all units	1,050	Gansu
Daqing	early Aug to end Sep	all units	550	Heilongjiang
Sichuan	mid Sep to late Nov	all units	1,000	Sichuan
SINOCHEM				
Huizhou	Mar 15-May 15	Some units (12 mil mt/year)	2,200	Guangdong

Shandong Independent 25 refineries throughput at 62.8%, up 1.4% points from Jul

The average operation rate for 25 independent refineries in Shandong region, China, surveyed by Rim Intelligence was 62.8% as of Aug 23, up 1.4% points from July. The crude and fuel oil throughput were 287,100 metric tons per day (mt/d). The average operation rate of crude distillation units and vacuum distillates units was 64.6% of the sampled capacity and throughput for crude and fuel oil was 180,300mt/d. The 70,000b/d Rizhao Landbridge Petrochemical was restarted after turnaround.

Refinery	Capacity (b/d)	Run Rate (%)	
		Aug-23	Jul-23
Zhenghe Petrochemical	100,000	68.5	68.5
Kenli Petrochemical	60,000	66.7	66.7
Huaxing Petrochemical	120,000	70.8	70.8
Shenchi Chemical	52,000	70.0	70.0
Lijin Petrochemical	70,000	64.2	64.2
Hualian Petrochemical	100,000	67.9	67.9
Chambroad Petrochemical	70,000	69.6	69.6
Wantong Chemical	86,000	0.0	0.0
Wonfull Chemical	116,000	61.8	61.8
Jincheng Petrochemical	118,000	57.5	57.5
Tianhong Chemical	100,000	68.2	68.2
Hongrun Petrochemical	114,000	69.0	69.0
Luqing Binhai	60,000	64.0	64.0
Changyi Chemical	120,000	67.7	67.7
China Overseas Energy	30,000	66.7	66.7



Haiyou Petrochemical	70,000	57.4	57.4
DongMing Petrochemical	150,000	68.6	68.6
Xinhai Petrochemical	60,000	67.3	67.3
Yatong Petrochemical	70,000	61.3	61.3
Shouguang Luqing PetroChemical	60,000	66.2	66.2
Qirun Chemical	44,000	65.8	65.8
Qingyuan Chemical	104,000	65.2	65.2
Wudi Xinyue Chemical	48,000	60.5	60.5
Rizhao Landbridge Petrochemical	70,000	62.2	13.3
Haike Ruilin Chemical	46,000	62.2	62.2
Total	2,084,000	62.8	61.4
Total(Capacity (b/d))		2,084,000	2,084,000

○Sustainable Aviation Fuel

Air China conducted the first commercial flight in China to use sustainable aviation oil (SAF). The country is targeting to reduce the emissions of CO₂ by civil aviation by 2035. Therefore, more airlines in the country are expected to use SAF produced in the country going forward.

Sources said that the fuel used this time contained 10% of SAF with the conventional jet fuel. This was refined at Sinopec's Zhenhai refinery. This is the only refinery in China that can refine SAF.



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