# The Officials

#### The Benchmark Publication



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#### Market Summary

#### **IT Outage Strikes Crowd**

CrowdStrike, a cybersecurity firm aiming to safeguard companies and hardware from cyber threats and vulnerabilities, did the opposite, downing and gumming up businesses across the world. Thousands of flights have been cancelled, supermarkets can't process card payments, and doctor's patient lists, in some cases, aren't working. The glitch, blamed on 'Falcon Sensor' seems to have affected Windows PCs, causing crashes and an inability to reboot systems. And the outages are enormous. 911 emergency lines in the US, the London Stock Exchange, planes grounded, airports in chaos, trains halted... The world has been brought to its knees, The Revenge of the Nerds, said someone.

Closer to home, signing-up issues were heard with SGX but nothing major, while users of ICE reported no problems, albeit some back-office processes are problematic, said another. ICE eventually mentioned it would issue an official release. We presume after all systems are up and running. Vitol was rumored to have significant issues, but senior officials said, "don't worry about us." Sporadic Bloomberg and Refinitiv signing on problems were also heard. 'Better not to trade flat price,' said a trader, 'just in case the systems go down.' He was more confident in trading spreads.

Although crude eased through Asia trading, with Brent closing the window 24c lower, the rubber band effect continues to contract towards the central tendency at \$85. Brent front-month futures rose by over 70c in the last 40 minutes of the window to \$85.14/bbl. PetroChina continued in its March, scooping up bbls, with Vitol and PetroChina declaring an Oman and an Upper Zakum, respectively.

Trading volumes in Asia have grown significantly this year. In the second quarter of 2024, ICE's Murban futures market hit record traded volume with over 1.5 million contracts traded, equivalent to 1.5 billion barrels of Murban crude, up over 160 percent since the start of 2024. H1 Dubai swaps have jumped by an average of 46% against a year ago. (Figure 1)

Two oil tankers are ablaze having collided off Singapore, prompting concern over the increased marine traffic in the region. Hafnia Nile, a products tanker, collided with and ageing crude tanker, Ceres I built in 2001.

| Summary              |          |           |              |              |
|----------------------|----------|-----------|--------------|--------------|
| Physical and Futures |          | 19-Jul-24 | 1-Day Change | 7-Day Change |
| Brent Sep (fut)      | (\$/bbl) | 85.140    | -0.240       | -0.960       |
| WTI Sep (fut)        | (\$/bbl) | 81.150    | -0.690       | -0.900       |
| Dubai Sep (phys)     | (\$/bbl) | 84.495    | -0.325       | -1.155       |
| Crude Swaps Aug      |          |           |              |              |
| Brent                | (\$/bbl) | 83.940    | -0.200       | -1.000       |
| DFL                  | (\$/bbl) | 1.310     | +0.100       | +0.040       |
| WTI                  | (\$/bbl) | 80.680    | -0.630       | -0.930       |
| Dubai                | (\$/bbl) | 83.500    | -0.280       | -1.180       |
| Tenor                |          | Sep-24    | Oct-24       | Nov-24       |
| Crude Futures        |          |           |              |              |
| Brent (fut)          | (\$/bbl) | 85.140    | 83.970       | 83.080       |
| WTI (fut)            | (\$/bbl) | 81.150    | 79.880       | 78.900       |



#### In detail

As of 09:30 BST, crude markets eased against the close of Asia yesterday. September Brent futures eased by \$0.24 to \$85.14/bbl, while September WTI futures fell by \$0.69/bbl, at \$81.15/bbl. Our Dubai assessment of physical cargoes for September lost \$0.325/bbl to close the window at \$84.495/bbl. Physical premiums for September Dubai eased by 5.5c to \$1.795/bbl. PetroChina were back to buying cargoes in the window, with Exxon selling to almost anyone. Futures and derivatives continue to exhibit gapping where relatively small volumes moving about spreads with values returning to familiar levels.

In contrast to the 2013 meeting, the Third Plenum disappointed markets. At the previous meeting the "decisive role" of markets was emphasized. And whilst they still reinforced ambitions to "leverage the role of the markets", also promised to "ensure effective regulation", the CCP will likely focus on the latter in typical fashion.

There was little adjustment to policy direction, despite persistent structural issues in China. The emphasis on 'high-quality development' also points to a priority shift that has been taking place in China for quite some time. China seeks to harness technological innovation to rise along the value chain, targeting the quality of growth and resilience to western sanctions, while accepting lower absolute growth.

Consequently, copper is set for its worst week since 2022; iron ore hasn't fared much better. Amidst ballooning inventories, weak construction globally, and disappointing conclusions from the Third Plenum, this doesn't bode well for oil markets in Asia. However, compared to last year, the volume of Asian crude traded has jumped, in part helped by increasingly expensive arbs.

India has been a big oil buyer. Ahead of Modi's annual budget next week, markets are hoping for a continuation of the expansive fiscal policy that has driven such strong capital investment and infrastructure development. However, a further emphasis on fiscal prudence will also be likely.

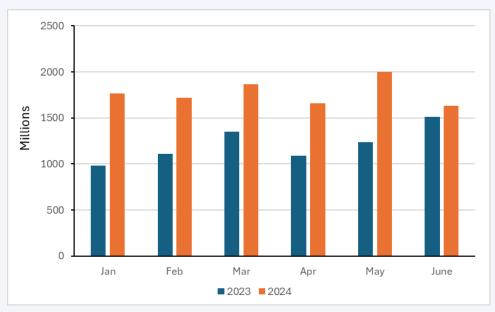


Figure 1: Dubai swaps exchange traded volumes

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| Event Month Ou    | lui albta |           |              |              |
|-------------------|-----------|-----------|--------------|--------------|
| Front Month Out   | trignts   |           |              |              |
| August Swaps      |           | 19-Jul-24 | 1-Day Change | 7-Day Change |
| Crude             |           |           |              |              |
| Brent             | (\$/bbl)  | 83.940    | -0.200       | -1.000       |
| ITW               | (\$/bbl)  | 80.680    | -0.630       | -0.930       |
| Dubai             | (\$/bbl)  | 83.500    | -0.280       | -1.180       |
| Distillates       |           |           |              |              |
| Gasoil 0.1 NWE    | (\$/mt)   | 764.020   | -4.500       | -16.930      |
| NWE Jet           | (\$/mt)   | 815.520   | -4.500       | -18.430      |
| Singapore 10ppm   | (\$/bbl)  | 99.260    | -0.570       | -1.810       |
| Sing Kero         | (\$/bbl)  | 98.110    | -0.520       | -1.810       |
| Gasoline          |           |           |              |              |
| RBOB              | (c/gal)   | 247.760   | +0.500       | -2.190       |
| EBOB              | (\$/mt)   | 825.880   | +0.350       | -13.710      |
| Singapore 92      | (\$/bbl)  | 91.090    | -0.160       | -1.200       |
| Singapore 95      | (\$/bbl)  | 95.440    | -0.150       | -1.200       |
| Naphtha           |           |           |              |              |
| US C5 ENT         | (c/gal)   | 155.170   | -0.960       | -3.000       |
| NWE Naphtha       | (\$/mt)   | 676.580   | -3.560       | -4.360       |
| MOPJ Naphtha      | (\$/mt)   | 692.830   | -4.810       | -4.860       |
| Fuel Oil          |           |           |              |              |
| 3.5% barges       | (\$/mt)   | 474.660   | +2.090       | -9.400       |
| Singapore 380     | (\$/mt)   | 494.980   | -0.150       | -10.330      |
| Singapore 180     | (\$/mt)   | 501.480   | -0.150       | -10.830      |
| 0.5% barges       | (\$/mt)   | 557.970   | -1.020       | -4.200       |
| Singapore 0.5%    | (\$/mt)   | 597.980   | -0.630       | -6.410       |
| NGLs              |           |           |              |              |
| US Propane LST    | (c/gal)   | 78.566    | -0.582       | -3.244       |
| NWE Propane       | (\$/mt)   | 567.830   | -5.120       | -6.400       |
| Saudi Propane CP  | (\$/mt)   | 583.830   | -4.120       | -6.450       |
| Asian Propane FEI | (\$/mt)   | 633.290   | -4.660       | -6.940       |
| US Butane ENT     | (c/gal)   | 97.180    | -0.860       | -1.250       |
| Saudi Butane CP   | (\$/mt)   | 572.790   | -3.160       | -1.440       |



| Long Tenor S      | Swaps    | S       |         |         |         |         |         |         |
|-------------------|----------|---------|---------|---------|---------|---------|---------|---------|
|                   |          | Balmo   | Aug-24  | Sep-24  | Oct-24  | Nov-24  | Q4-24   | Q1-25   |
| Crude             |          |         |         |         |         |         |         |         |
| Brent             | (\$/bbl) | 85.010  | 83.940  | 83.060  | 82.380  | 81.810  | 81.830  | 80.447  |
| WTI               | (\$/bbl) | 81.490  | 80.680  | 79.590  | 78.650  | 77.890  | 77.917  | 76.143  |
| Dubai             | (\$/bbl) | 84.500  | 83.500  | 82.700  | 81.950  | 81.300  | 81.323  | 79.880  |
| Distillates       |          |         |         |         |         |         |         |         |
| Gasoil 0.1 NWE    | (\$/mt)  | 763.000 | 764.020 | 765.740 | 764.410 | 760.330 | 760.803 | 753.09  |
| NWE Jet           | (\$/mt)  | 820.500 | 815.520 | 816.240 | 816.910 | 814.330 | 814.803 | 810.597 |
| Singapore 10ppm   | (\$/bbl) | 99.110  | 99.260  | 99.410  | 99.330  | 98.950  | 98.957  | 98.293  |
| Sing Kero         | (\$/bbl) | 97.910  | 98.110  | 98.370  | 98.490  | 98.310  | 98.307  | 97.830  |
| Gasoline          |          |         |         |         |         |         |         |         |
| RBOB              | (c/gal)  | 251.520 | 247.760 | 228.540 | 222.580 | 218.560 | 219.320 | 224.507 |
| EBOB              | (\$/mt)  | 828.880 | 825.880 | 812.630 | 767.630 | 747.130 | 749.213 | 732.880 |
| Singapore 92      | (\$/bbl) | 91.690  | 91.090  | 90.040  | 89.040  | 88.190  | 88.290  | 87.153  |
| Singapore 95      | (\$/bbl) | 96.190  | 95.440  | 94.290  | 93.240  | 92.190  | 92.323  | 90.753  |
| Naphtha           |          |         |         |         |         |         |         |         |
| US C5 ENT         | (c/gal)  | 154.420 | 155.170 | 155.790 | 156.290 | 156.410 | 156.370 | 155.660 |
| NWE Naphtha       | (\$/mt)  | 689.580 | 676.580 | 668.580 | 664.330 | 659.330 | 659.330 | 645.413 |
| MOP-Japan Naphtha | (\$/mt)  | 698.830 | 692.830 | 686.080 | 680.830 | 675.580 | 675.580 | 659.413 |
| Fuel Oil          |          |         |         |         |         |         |         |         |
| 3.5% barges       | (\$/mt)  | 478.660 | 474.660 | 468.160 | 458.660 | 451.910 | 452.910 | 445.32  |
| Singapore 380     | (\$/mt)  | 501.480 | 494.980 | 481.980 | 469.980 | 461.230 | 462.813 | 452.563 |
| Singapore 180     | (\$/mt)  | 506.730 | 501.480 | 489.980 | 479.980 | 472.230 | 473.730 | 465.563 |
| 0.5% barges       | (\$/mt)  | 561.220 | 557.970 | 551.220 | 544.970 | 539.470 | 539.553 | 526.88  |
| Singapore 0.5%    | (\$/mt)  | 603.980 | 597.980 | 591.480 | 585.480 | 580.230 | 580.313 | 566.730 |
| NGLs              |          |         |         |         |         |         |         |         |
| US Propane LST    | (c/gal)  | 77.686  | 78.566  | 79.446  | 80.696  | 81.446  | 81.196  | 80.14   |
| NWE Propane       | (\$/mt)  | 573.330 | 567.830 | 563.330 | 561.830 | 560.830 | 561.163 | 541.49  |
| Saudi Propane CP  | (\$/mt)  | 583.830 | 583.830 | 586.830 | 595.330 | 603.330 | 602.163 | 594.330 |
| Asian Propane FEI | (\$/mt)  | 636.290 | 633.290 | 634.790 | 639.290 | 643.290 | 641.290 | 618.123 |
| US Butane ENT     | (c/gal)  | 96.430  | 97.180  | 97.680  | 98.300  | 98.920  | 98.673  | 96.090  |
| Saudi Butane CP   | (\$/mt)  | 572.790 | 572.790 | 580.790 | 591.290 | 599.290 | 598.123 | 589.457 |



| Front Month S     | nreade   |           |              |              |
|-------------------|----------|-----------|--------------|--------------|
| Aug/Sep           | predus   | 19-Jul-24 | 1-Day Change | 7-Day Change |
| Crude             |          |           |              |              |
| Brent             | (\$/bbl) | 0.880     | -0.030       | -0.005       |
| WTI               | (\$/bbl) | 1.090     | -0.170       | +0.030       |
| Dubai             | (\$/bbl) | 0.800     | -0.010       | -0.050       |
| Distillates       |          |           |              |              |
| Gasoil 0.1 NWE    | (\$/mt)  | -1.720    | +0.000       | -1.490       |
| NWE Jet           | (\$/mt)  | -0.720    | +1.000       | +0.510       |
| Singapore 10ppm   | (\$/bbl) | -0.150    | -0.040       | -0.050       |
| Sing Kero         | (\$/bbl) | -0.260    | +0.000       | -0.030       |
| Gasoline          |          |           |              |              |
| RBOB              | (c/gal)  | 19.220    | +0.230       | +0.020       |
| EBOB              | (\$/mt)  | 13.250    | +0.500       | -2.000       |
| Singapore 92      | (\$/bbl) | 1.050     | -0.050       | -0.200       |
| Singapore 95      | (\$/bbl) | 1.150     | -0.050       | -0.200       |
| Naphtha           |          |           |              |              |
| US C5 ENT         | (c/gal)  | -0.620    | +0.000       | -0.240       |
| NWE Naphtha       | (\$/mt)  | 8.000     | -1.000       | +0.000       |
| MOP-Japan Naphtha | (\$/mt)  | 6.750     | -1.500       | -0.250       |
| Fuel Oil          |          |           |              |              |
| 3.5% barges       | (\$/mt)  | 6.500     | +1.250       | -2.000       |
| Singapore 380     | (\$/mt)  | 13.000    | -0.250       | -2.500       |
| Singapore 180     | (\$/mt)  | 11.500    | -0.250       | -2.750       |
| 0.5% barges       | (\$/mt)  | 6.750     | -0.250       | +1.500       |
| Singapore 0.5%    | (\$/mt)  | 6.500     | +0.000       | +0.250       |
| NGLs              |          |           |              |              |
| US Propane LST    | (c/gal)  | -0.880    | +0.000       | +0.000       |
| NWE Propane       | (\$/mt)  | 4.500     | -1.000       | -0.500       |
| Saudi Propane CP  | (\$/mt)  | -3.000    | -0.500       | -1.500       |
| Asian Propane FEI | (\$/mt)  | -1.500    | +0.000       | -0.750       |
| US Butane ENT     | (c/gal)  | -0.500    | -0.120       | +0.120       |
| Saudi Butane CP   | (\$/mt)  | -8.000    | -0.500       | +3.500       |



| Front Month Cracks and Diffs                          |           |              |              |
|---|-----------|--------------|--------------|
| August  | 19-Jul-24 | 1-Day Change | 7-Day Change |
| Crude   |           |              |              |
| Brent/Dubai (\$/bbl)                                  | 0.430     | +0.080       | +0.170       |
| WTI/Brent (\$/bbl)                                    | -3.250    | -0.430       | +0.080       |
| Distillates   |           |              |              |
| Gasoil 0.1 NWE crack (\$/bbl)                         | 18.610    | -0.410       | -1.280       |
| NWE Jet crack (\$/bbl)                                | 19.550    | -0.380       | -1.340       |
| NWE Jet Diff (\$/mt)                                  | 51.500    | +0.000       | -1.500       |
| Gasoil E/W (\$/bbl)                                   | -24.500   | +0.250       | +3.500       |
| Regrade (Sing Kero vs Sing 10ppm) (\$/bb1)            | -1.150    | +0.050       | +0.000       |
| Gasoline  |           |              |              |
| TA Arb (RBOB vs EBOB) (c/gal)                         | 11.700    | +0.400       | +1.700       |
| EBOB crack (\$/mt)                                    | 15.230    | +0.250       | -0.590       |
| Singapore 92 crack (\$/bbl)                           | 7.180     | +0.050       | -0.160       |
| Gasoline E/W (Sing 92 vs EBOB) (\$/bbl)               | -8.050    | -0.200       | +0.450       |
| European Gasnaph (EBOB vs Naphtha) (\$/mt)            | 149.230   | +3.880       | -9.420       |
| Asian Gasnaph (Sing 92 vs MOPJ) (\$/mt)               | 65.780    | +3.390       | -5.310       |
| Naphtha   |           |              |              |
| US C5 ENT vs WTI Crack                                | -15.490   | +0.250       | -0.280       |
| NWE Naphtha Crack (\$/bbl)                            | -7.900    | -0.200       | +0.550       |
| MOPJ Naphtha Crack (\$/bbl)                           | -6.070    | -0.340       | +0.500       |
| Naphtha E/W (NWE vs MOPJ) (\$/mt)                     | 16.250    | -1.250       | -0.500       |
| Fuel Oil  |           |              |              |
| 3.5% barges crack (\$/bbl)                            | -9.150    | +0.550       | -0.400       |
| Singapore 380 crack (\$/bbl)                          | -5.960    | +0.200       | -0.560       |
| Singapore 180 crack (\$/bbl)                          | -4.940    | +0.190       | -0.640       |
| Visco (180-380) (\$/mt)                               | 6.500     | +0.000       | -0.500       |
| HSFO E/W (380 vs 3.5% barges) (\$/mt)                 | 20.250    | -2.250       | -1.000       |
| 0.5% barges crack (\$/bbl)                            | 3.950     | +0.050       | +0.400       |
| Singapore 0.5% crack (\$/bbl)                         | 10.250    | +0.100       | +0.050       |
| VLSFO E/W (Sing 0.5% vs 0.5% barges) (\$/mt)          | 40.010    | +0.320       | -2.210       |
| European Hi5 (0.5% barges vs 3.5% barges) (\$/mt)     | 83.180    | -3.180       | +5.070       |
| Asian Hi5 (Sing 0.5% vs 380) (\$/mt)                  | 102.940   | -0.610       | +3.860       |
| 0.5% barges/gasoil (\$/mt)                            | -205.950  | +3.730       | +12.980      |
| Sing 0.5% vs Sing 10ppm (\$/mt)                       | -141.420  | +3.820       | +7.300       |
| NGLs  |           |              |              |
| US Propane LST vs NWE Propane (\$/mt)                 | -158.500  | +2.000       | -10.500      |
| US Propane LST vs Asian Propane FEI (\$/mt)           | -224.000  | +1.500       | -10.000      |
| Asian Propane FEI vs NWE Propane (\$/mt)              | 65.500    | +0.500       | -0.500       |
| Asian Propane FEI vs Saudi Propane CP (\$/mt)         | 49.500    | -0.500       | -0.500       |
| European Pronap (NWE Propane vs NWE Naphtha ) (\$/mt) | -108.610  | -1.110       | -1.720       |
| Asian Pronap (FEI vs MOPJ) (\$/mt)                    | -108.950  | +1.130       | -1.310       |



| Long Tenor Cracks / Diffs                  |         |         |         |          |         |          |          |
|--|---------|---------|---------|----------|---------|----------|----------|
| Long Tenor Ordono / Direc                  |         | - 04    | ~ 04    | 0 1 04   | 04      | 24.24    | 01 05    |
|  | Balmo   | Aug-24  | Sep-24  | Oct-24   | Nov-24  | Q4-24    | Q1-25    |
| Crude                                      |         |         |         |          |         |          |          |
| Brent/Dubai (\$/bbl)                       | 0.500   | 0.430   | 0.340   |          | 0.490   | 0.487    | 0.550    |
| WTI/Brent (\$/bbl)                         | -3.520  | -3.250  | -3.480  | -3.730   | -3.910  | -3.907   | -4.300   |
| Distillates                                |         |         |         |          |         |          |          |
| Gasoil 0.1 NWE crack (\$/bbl)              | 17.41   | 18.61   | 19.72   |          |         | 20.29    | 20.64    |
| NWE Jet crack (\$/bbl)                     | 19.11   | 19.55   | 20.52   |          |         | 21.57    | 22.42    |
| NWE Jet Diff (\$/mt)                       | 57.50   | 51.50   | 50.50   | 52.50    | 54.00   | 54.00    | 57.50    |
| Gasoil E/W (\$/bbl)                        | -24.63  | -24.50  | -25.14  | -24.39   | -23.14  | -23.56   | -20.82   |
| Regrade (Sing Kero vs Sing 10ppm) (\$/bbl) | -1.20   | -1.15   | -1.04   | -0.84    | -0.64   | -0.65    | -0.46    |
| Gasoline                                   |         |         |         |          |         |          |          |
| TA Arb (RBOB vs EBOB)(c/gal)               | 14.600  | 11.700  | -3.730  | 3.170    | 5.010   | 5.173    | 15.030   |
| EBOB crack (\$/mt)                         | 14.500  | 15.230  | 14.500  | 9.780    | 7.890   | 8.120    | 7.537    |
| Singapore 92 crack (\$/bbl)                | 6.690   | 7.180   | 7.000   | 6.680    | 6.400   | 6.480    | 6.720    |
| Gasoline E/W (Sing 92 vs EBOB) (\$/bbl)    | -7.810  | -8.050  | -7.510  | -3.100   | -1.490  | -1.640   | -0.817   |
| European Gasnaph (EBOB vs Naphtha) (\$/mt) | 139.230 | 149.230 | 143.980 | 103.230  | 87.730  | 89.813   | 87.397   |
| Asian Gasnaph (Sing 92 vs MOPJ) (\$/mt)    | 64.780  | 65.780  | 63.790  | 60.710   | 58.880  | 59.710   | 66.407   |
| Naphtha                                    |         |         |         |          |         |          |          |
| US C5 ENT vs WTI Crack                     | -16.610 | -15.490 | -14.140 | -12.990  | -12.180 | -12.223  | -10.747  |
| NWE Naphtha Crack (\$/bbl)                 | -7.530  | -7.900  | -7.930  | -7.730   | -7.720  | -7.740   | -7.923   |
| MOPJ Naphtha Crack (\$/bbl)                | -6.480  | -6.070  | -5.950  | -5.860   | -5.880  | -5.900   | -6.340   |
| Naphtha E/W (NWE vs MOPJ) (\$/mt)          | 9.250   | 16.250  | 17.500  | 16.500   | 16.250  | 16.250   | 14.000   |
| Fuel Oil                                   |         |         |         |          |         |          |          |
| 3.5% bgs crack (\$/bbl)                    | -9.600  | -9.150  | -9.280  | -10.110  | -10.600 | -10.460  | -10.277  |
| Singapore 380 crack (\$/bbl)               | -6.010  | -5.960  | -7.130  |          |         | -8.920   | -9.153   |
| Singapore 180 crack (\$/bbl)               | -5.180  | -4.940  | -5.870  |          |         | -7.197   |          |
| Visco (180-380) (\$/mt)                    | 5.250   | 6.500   | 8.000   |          |         | 10.917   |          |
| HSFO E/W (380 vs 3.5% bgs) (\$/mt)         | 22.750  | 20.250  | 13.750  |          |         | 9.833    |          |
| 0.5% bgs crack (\$/bbl)                    | 3.380   | 3.950   | 3.760   |          |         | 3.157    |          |
| Singapore 0.5% crack (\$/bbl)              | 10.120  | 10.250  |         |          |         | 9.580    |          |
| VLSFO E/W (Sing 0.5% vs 0.5% bgs) (\$/mt)  |         | 40.010  | 40.260  |          |         | 40.760   |          |
| European Hi5 (0.5% bgs vs 3.5% bgs) (\$/mt |         | 83.180  | 82.930  | 86.180   |         | 86.513   | 81.430   |
| Asian Hi5 (Sing 0.5% vs 380) (\$/mt)       | 102.440 |         |         | 115.440  |         |          |          |
| 0.5% bgs/gasoil (\$/mt)                    |         |         |         | -219.160 |         |          |          |
| Sing 0.5% vs Sing 10ppm (\$/mt)            |         |         |         | -154.140 |         |          |          |
| NGLs                                       |         |         |         |          |         |          |          |
| US Propane LST vs NWE Propane (\$/mt)      | -168.59 | -158.5  | -149.42 | -141.41  | -136 5  | -138.137 | -123 937 |
| US Propane LST vs Asian Propane FEI (\$/mt |         | -224    |         |          |         | -218.303 |          |
| Asian Propane FEI vs NWE Propane (\$/mt)   | 63      | 65.5    | 71.5    | 77.5     | 82.5    | 80.167   |          |
| Asian Propane FEI vs Saudi Propane CP (\$/ |         | 49.5    | 48      | 44       | 40      | 39.167   | 23.833   |
| European Pronap (\$/mt)                    | -116.11 | -108.61 | -105.11 | -102.36  |         |          | -103.777 |
| -  | -114.95 | -108.81 | -99.2   | -85.45   | -72.2   |          |          |
| Asian Pronap (FEI vs MOPJ) (\$/mt)         | -114.95 | -108.95 | -99.2   | -85.45   | -12.2   | -73.367  | -65.033  |



| Inter-month Crack Spreads                             |           |              |              |
|---|-----------|--------------|--------------|
| Aug/Sep   | 19-Jul-24 | 1-Day Change | 7-Day Change |
| Crude   |           |              |              |
| Brent/Dubai (\$/bbl)                                  | 0.090     | +0.000       | +0.060       |
| WTI/Brent (\$/bbl)                                    | 0.230     | -0.130       | +0.050       |
| Distillates   |           |              |              |
| Gasoil 0.1 NWE crack (\$/bbl)                         | -1.110    | +0.030       | -0.200       |
| NWE Jet crack (\$/bbl)                                | -0.970    |              | +0.070       |
| NWE Jet Diff (\$/mt)                                  | 1.000     |              | +2.000       |
| Gasoil E/W (\$/bbl)                                   | 0.640     |              | +1.180       |
| Regrade (Sing Kero vs Sing 10ppm) (\$/bbl)            | -0.110    |              | +0.020       |
| Gasoline  |           |              |              |
| TA Arb (RBOB vs EBOB) (c/gal)                         | 15.430    | +0.080       | +0.590       |
| EBOB crack (\$/mt)                                    | 0.730     |              | -0.200       |
| Singapore 92 crack (\$/bbl)                           | 0.180     | -0.030       | -0.180       |
| Gasoline E/W (Sing 92 vs EBOB) (\$/bbl)               | -0.540    | -0.110       | +0.040       |
| European Gasnaph (EBOB vs Naphtha) (\$/mt)            | 5.250     | +1.500       | -2.000       |
| Asian Gasnaph (Sing 92 vs MOPJ) (\$/mt)               | 1.990     | +1.080       | -1.430       |
| Naphtha   |           |              |              |
| US C5 ENT vs WTI Crack                                | -1.350    | +0.190       | -0.110       |
| NWE Naphtha Crack (\$/bbl)                            | 0.030     | -0.080       | +0.010       |
| MOPJ Naphtha Crack (\$/bbl)                           | -0.120    | -0.150       | -0.020       |
| Naphtha E/W (NWE vs MOPJ) (\$/mt)                     | -1.250    | -0.500       | -0.250       |
| Fuel Oil  |           |              |              |
| 3.5% barges crack (\$/bbl)                            | 0.130     | +0.200       | -0.330       |
| Singapore 380 crack (\$/bbl)                          | 1.170     | -0.010       | -0.380       |
| Singapore 180 crack (\$/bbl)                          | 0.930     | -0.040       | -0.430       |
| Visco (180-380) (\$/mt)                               | -1.500    | +0.000       | -0.250       |
| HSFO E/W (380 vs 3.5% barges) (\$/mt)                 | 6.500     | -1.500       | -0.500       |
| 0.5% barges crack (\$/bbl)                            | 0.190     | -0.020       | +0.250       |
| Singapore 0.5% crack (\$/bbl)                         | 0.140     | +0.010       | +0.050       |
| VLSFO E/W (Sing 0.5% vs 0.5% barges) (\$/mt)          | -0.250    | +0.250       | -1.250       |
| European Hi5 (0.5% barges vs 3.5% barges) (\$/mt)     | 0.250     | -1.500       | +3.500       |
| Asian Hi5 (Sing 0.5% vs 380) (\$/mt)                  | -6.500    | +0.250       | +2.750       |
| 0.5% barges/gasoil (\$/mt)                            | 8.630     | +0.060       | +3.230       |
| Sing 0.5% vs Sing 10ppm (\$/mt)                       | 7.620     | +0.300       | +0.630       |
| NGLs  |           |              |              |
| US Propane LST vs NWE Propane (\$/mt)                 | -9.080    | +1.000       | +0.500       |
| US Propane LST vs Asian Propane FEI (\$/mt)           | -3.080    |              | +0.750       |
| Asian Propane FEI vs NWE Propane (\$/mt)              | -6.000    |              | -0.250       |
| Asian Propane FEI vs Saudi Propane CP (\$/mt)         | 1.500     |              | +0.750       |
| European Pronap (NWE Propane vs NWE Naphtha ) (\$/mt) | -3.500    |              | -0.500       |