



Crude **DUC**
Country Denmark

TBP
DISTILLATION

| | | | | | | | | | |
|--------------------------------|-------|------------|-----------|-----|------|------|------|------|------|
| Density at 15°C, kg/m3 | 856.0 | Assay Date | 03-Jun-15 | °C | wt% | vol% | °C | wt% | vol% |
| °API | 33.7 | | | 080 | 6.2 | 8.4 | 460 | 73.4 | 76.3 |
| Bbl/mt | 7.361 | | | 090 | 7.4 | 9.8 | 480 | 76.3 | 79.0 |
| Acidity, mg KOH/g | 0.39 | | | 100 | 8.7 | 11.4 | 500 | 79.0 | 81.5 |
| Sulphur, wt% | 0.26 | | | 120 | 12.4 | 15.5 | 520 | 81.5 | 83.8 |
| Hydrogen Sulphide, mg/kg | 0 | | | 140 | 17.1 | 20.7 | 540 | 83.8 | 85.9 |
| Mercaptan Sulphur, mg/kg | 7 | | | 160 | 21.5 | 25.5 | 560 | 85.9 | 87.8 |
| Viscosity, cSt at 10 °C | 13.1 | | | 180 | 24.7 | 29.0 | 580 | 87.9 | 89.5 |
| Viscosity, cSt at 50 °C | 4.2 | | | 200 | 27.8 | 32.1 | | | |
| Pour Point, °C | -39 | | | 220 | 31.1 | 35.5 | | | |
| Total Nitrogen, wt% | 0.13 | | | 240 | 34.5 | 39.0 | | | |
| Wax, wt% | - | | | 260 | 38.2 | 42.6 | | | |
| Wax Appearance Temperature, °C | - | | | 280 | 42.0 | 46.4 | | | |
| RVP at 37.8 °C, kPa | 39 | Ethane | 0.0 | 0.1 | 300 | 46.0 | 50.3 | | |
| Water, vol% | 0.0 | Propane | 0.3 | 0.5 | 320 | 50.2 | 54.4 | | |
| NaCl, mg/kg | 38.6 | Iso-Butane | 0.3 | 0.5 | 340 | 53.8 | 58.0 | | |
| Nickel, mg/kg | 3.7 | n-Butane | 0.8 | 1.2 | 360 | 56.9 | 60.9 | | |
| Vanadium, mg/kg | 0.4 | | | | 380 | 60.1 | 64.0 | | |
| Iron, mg/kg | 0.7 | | | | 400 | 63.6 | 67.2 | | |
| Mercury, µg/kg | 0.0 | | | | 420 | 67.0 | 70.4 | | |
| | | | | | 440 | 70.3 | 73.5 | | |

PROPERTIES OF TBP CUTS

| LIGHT NAPHTHA | Cuts | Yield | Yield | Den 15°C | S | RSH | RON | MON | | | Napht. | Aro. | RVP | | | |
|-------------------|---------|-------|-------|----------|------|---------|----------|---------|--------|-----------|--------|---------|----------|----------|-------|--------|
| | °C | wt% | vol % | kg/m3 | wt% | mg/kg | clear | clear | | | vol% | vol% | kPa | | | |
| | 15-65 | 3.5 | 4.6 | 647 | 0.00 | 2 | 81.4 | 79.3 | | | 9.6 | 0.5 | - | | | |
| | 15-80 | 4.7 | 6.1 | 661 | 0.00 | 4 | 80.9 | 78.4 | | | 18.0 | 1.3 | - | | | |
| HEAVY NAPHTHA | Cuts | Yield | Yield | Den 15°C | S | RSH | | | | | Napht. | Aro. | | | | |
| | °C | wt% | vol % | kg/m3 | wt% | mg/kg | | | | | vol% | vol% | | | | |
| | 80-150 | 13.2 | 14.8 | 759 | 0.01 | 9 | | | | | 60.5 | 8.0 | | | | |
| 80-175 | 17.7 | 19.7 | 769 | 0.01 | 10 | | | | | 59.1 | 10.2 | | | | | |
| 100-150 | 10.7 | 11.9 | 767 | 0.01 | 9 | | | | | 61.7 | 8.9 | | | | | |
| KEROSENE | Cuts | Yield | Yield | Den 15°C | S | RSH | Smoke | Acidity | Cetane | Freez. Pt | | Aro. | Visc cSt | | | Flash |
| | °C | wt% | vol % | kg/m3 | wt% | mg/kg | Pt mm | mgKOH/g | Index | °C | | vol% | 50°C | | | Point |
| | 150-230 | 13.4 | 13.9 | 819 | 0.05 | 12 | 19 | 0.04 | 32.2 | -76 | | 20.6 | 1.1 | | | 55.0 |
| | 175-230 | 8.8 | 9.1 | 829 | 0.06 | 12 | 18 | 0.05 | 33.0 | -70 | | 22.5 | 1.2 | | | 69.6 |
| 150-250 | 16.9 | 17.5 | 825 | 0.06 | 12 | 19 | 0.05 | 34.1 | -71 | | 21.4 | 1.2 | | | 58.0 | |
| GASOIL | Cuts | Yield | Yield | Den 15°C | S | | Anilin | | Cetane | Cloud Pt | CFPP | Pour Pt | Visc cSt | Visc cSt | UOPK | Flash |
| | °C | wt% | vol % | kg/m3 | wt% | | Point °C | | Index | C | C | C | 50°C | 100°C | | Point |
| | 175-400 | 39.6 | 39.1 | 866 | 0.18 | | 62 | | 44.2 | -23 | -26 | -30 | 3.0 | 1.4 | 11.6 | 83.1 |
| | 230-400 | 30.8 | 30.0 | 877 | 0.21 | | 65 | | 46.8 | -19 | -20 | -21 | 4.2 | 1.7 | 11.6 | 106.6 |
| 230-375 | 26.5 | 26.0 | 872 | 0.19 | | 64 | | 46.4 | -25 | -26 | -27 | 3.6 | 1.5 | 11.6 | 104.9 | |
| VACUUM DISTILLATE | Cuts | Yield | Yield | Den 15°C | S | Conrad. | Anilin | Ni | Va | Total N | Bas N | Pour Pt | Visc cSt | Visc cSt | UOPK | Asp C7 |
| | °C | wt% | vol % | kg/m3 | wt% | wt% | Point °C | mg/kg | mg/kg | wt% | mg/kg | C | 100°C | 150°C | | wt % |
| | 375-550 | 25.6 | 23.7 | 924 | 0.39 | 0.2 | 87 | 0 | 0 | 0.15 | 610 | 27 | 10.7 | 3.6 | 11.8 | 0.0 |
| | 375-565 | 27.1 | 25.1 | 925 | 0.39 | 0.3 | 87 | 0 | 0 | 0.16 | 639 | 28 | 11.5 | 3.8 | 11.9 | 0.0 |
| | 375-580 | 28.6 | 26.3 | 926 | 0.40 | 0.4 | 88 | 0 | 0 | 0.17 | 667 | 29 | 12.3 | 4.0 | 11.9 | 0.0 |
| 400-580 | 24.3 | 22.3 | 930 | 0.41 | 0.5 | 90 | 0 | 0 | 0.18 | 729 | 32 | 15.6 | 4.8 | 11.9 | 0.0 | |
| RESIDUE | Cuts | Yield | Yield | Den 15°C | S | Conrad. | Acidity | Ni | Va | Total N | | Pour Pt | Visc cSt | Visc cSt | Pene | Asp C7 |
| | °C | wt% | vol % | kg/m3 | wt% | wt% | mgKOH/g | mg/kg | mg/kg | wt% | | C | 100°C | 150°C | mm/10 | wt% |
| | > 375 | 40.7 | 36.8 | 945 | 0.49 | 4.4 | 0.3 | 9 | 1 | 0.30 | | 8 | 31 | 8 | - | 0.1 |
| | > 550 | 15.1 | 13.1 | 983 | 0.67 | 11.6 | 0.1 | 24 | 3 | 0.55 | | 38 | 517 | 55 | 444 | 0.2 |
| | > 565 | 13.6 | 11.7 | 987 | 0.69 | 12.7 | 0.1 | 27 | 3 | 0.58 | | 40 | 715 | 68 | 342 | 0.3 |
| > 580 | 12.1 | 10.5 | 991 | 0.71 | 13.8 | 0.0 | 29 | 4 | 0.61 | | 42 | 1020 | 86 | 271 | 0.3 | |

This crude oil data sheet is for information purposes only. No guaranty is given as to its accuracy or as to any consequences arising from its use.

TOTAL DTS / AM

Jul-21