



Crude **BRENT**
Country United Kingdom

TBP
DISTILLATION

| | | Assay Date | | °C | wt% | vol% | °C | wt% | vol% |
|-------------------------------|-------|------------|----------------|-----|------|-------|-----|-------|-------|
| Density at 15°C, kg/m3 | 833.7 | 03-Oct-06 | | 80 | 9.48 | 11.95 | 450 | 73.99 | 77.39 |
| °API | 38.1 | | | 140 | 21.9 | 25.7 | 475 | 77.1 | 80.3 |
| Bbl/mt | 7.558 | | | 150 | 23.9 | 27.8 | 500 | 80.2 | 83.0 |
| Viscosity, cSt at 10 °C | 7.10 | | | 160 | 25.7 | 29.8 | 525 | 83.2 | 85.8 |
| | | | | 180 | 29.1 | 33.4 | 550 | 86.4 | 88.6 |
| | | | | 200 | 32.3 | 36.8 | 565 | 88.4 | 90.4 |
| Pour Point, °C | 0 | | | 220 | 35.5 | 40.0 | | | |
| Paraffins wt% | | | | 240 | 38.8 | 43.4 | | | |
| Wax Appearance Temperature °C | 17.4 | | | 250 | 40.6 | 45.1 | | | |
| RVP at 37.8 °C, kPa | 60 | | | 260 | 42.4 | 46.9 | | | |
| Water vol% | | | | 300 | 49.8 | 54.3 | | | |
| RVP at 37.8 °C, kPa | | %Pds | %Vol | 310 | 51.7 | 56.1 | | | |
| NaCl mg/kg | | | | 320 | 53.6 | 58.0 | | | |
| Sulphur wt% | 0 | Ethane | 0.1 0.2 358.00 | 330 | 55.4 | 59.8 | | | |
| Mercaptan Sulphur, mg/kg | 7.0 | Propane | 0.9 1.5 508.00 | 340 | 57.3 | 61.5 | | | |
| Hydrogen Sulphide, mg/kg | 0.0 | Iso-Butane | 0.3 0.4 563.00 | 350 | 59.1 | 63.3 | | | |
| Acidity, mg KOH/g | 0.1 | n-Butane | 1.4 2.0 584.00 | 360 | 60.8 | 64.9 | | | |
| Nickel, mg/kg | 0.4 | | | 370 | 62.5 | 66.6 | | | |
| Vanadium, mg/kg | 6.6 | | | 380 | 64.1 | 68.1 | | | |
| | | | | 390 | 65.7 | 69.6 | | | |
| | | | | 400 | 67.2 | 71.0 | | | |

PROPERTIES OF TBP CUTS

| LIGHT NAPHTHA | Cuts | Yield | Yield | Den 15°C | S | RSH | RON | RON | MON | MON | Napht | Aro | RVP | | | | |
|-------------------|---------|-------|-------|----------|------|---------|----------|----------|--------|-----------|--------|---------|----------|----------|------|--------|--|
| | °C | wt% | vol % | kg/m3 | wt% | mg/kg | clear | 0,15 g/l | clear | 0,15 g/l | vol% | vol% | kPa | | | | |
| | 15-65 | | | | | | | | | | | | | | | | |
| | 15-80 | 6.8 | 8.4 | 675 | 0.00 | | 70.4 | 77.4 | 68.60 | 74.65 | | 3.7 | | | | | |
| HEAVY NAPHTHA | Cuts | Yield | Yield | Den 15°C | S | RSH | | | | | Napht | Aro. | | | | | |
| | °C | wt% | vol % | kg/m3 | wt% | mg/kg | | | | | vol% | vol% | | | | | |
| | 80-150 | 14.4 | 15.9 | 756 | 0.00 | | | | | | 40.2 | 13.8 | | | | | |
| 80-175 | 18.8 | 20.6 | 762 | 0.01 | | | | | | 39.0 | 15.1 | | | | | | |
| 100-150 | 10.2 | 11.3 | 757 | 0.01 | | | | | | | | | | | | | |
| KEROSENE | Cuts | Yield | Yield | Den 15°C | S | RSH | Smoke | Acidity | Cetane | Freeze Pt | Naphta | Aro. | Saybolt | Visc cSt | | Flash | |
| | °C | wt% | vol % | kg/m3 | wt% | mg/kg | Point | mg/g | calc | °C | vol% | vol% | Color | 50°C | | Point | |
| | 150-230 | 13.3 | 13.9 | 799 | 0.08 | | 21 | | | -58 | | 17.6 | | | | | |
| | 175-230 | 8.9 | 9.2 | 807 | 0.10 | | | | | | | | | | | | |
| 150-250 | 16.7 | 17.3 | 804 | 0.10 | | | | | | | | | | | | | |
| GASOIL | Cuts | Yield | Yield | Den 15°C | S | | Anilin | Cetane | Cetane | Cloud Pt | CFPP | Pour Pt | Visc cSt | Visc cSt | KUOP | Flash | |
| | °C | wt% | vol % | kg/m3 | wt% | | Point °C | | calc | C | C | C | 50°C | 100°C | | Point | |
| | 175-400 | 38.9 | 38.5 | 842 | 0.24 | | | | 53.8 | -1 | | -5 | | | | | |
| | 230-400 | 30.0 | 29.3 | 853 | 0.30 | | | | 54.2 | 1 | | -3 | | | | | |
| 230-375 | 26.1 | 25.6 | 850 | 0.26 | | | | 53.6 | -5 | | -9 | | | | | | |
| VACUUM DISTILLATE | Cuts | Yield | Yield | Den 15°C | S | Conrad. | Anilin | Ni | V | Total N | Bas N | Pour Pt | Visc cSt | Visc cSt | KUOP | 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 | 23.1 | 21.3 | 907 | 0.63 | 0.2 | | | | 0.13 | 0 | | | | 12.1 | | |
| | 375-565 | 25.1 | 23.0 | 909 | 0.65 | | | | | | | | | | | | |
| | 375-580 | | | | | | | | | | | | | | | | |
| 400-580 | | | | | | | | | | | | | | | | | |
| RESIDUE | Cuts | Yield | Yield | Den 15°C | S | Conrad. | AsphC5 | Ni | V | Total N | Pene | Pour Pt | Visc cSt | Visc cSt | | Asp C7 | |
| | °C | wt% | vol % | kg/m3 | wt% | wt% | wt% | mg/kg | mg/kg | wt% | | C | 100°C | 150°C | | wt% | |
| | > 375 | 36.7 | 32.7 | 937 | 0.87 | | | | | | | 24 | 22 | | | | |
| | > 550 | 13.6 | 11.4 | 993 | 1.27 | 18.1 | | | | 0.51 | | 48 | 477 | | | 2.5 | |
| | > 565 | 11.6 | 9.6 | 1002 | 1.33 | | | | | | | | 692 | | | | |
| > 580 | | | | | | | | | | | | | | | | | |

* Estimated value

TOTAL DTS / AM

Nov-06