

YOHO08Z

| | Whole crude - 200 to 1499 | Butane and Lighter - 200 to 60 | Lt. Naphtha C5- 165F 60 to 165 | Hvy Naphtha 165 - 330F 165 to 330 | Kerosene 330 - 480F 330 to 480 | Diesel 480 - 650F 480 to 650 | Vacuum Gas Oil 650 - 1000F 650 to 1000 | Vacuum Residue 1000F+ 1000 to 1499 |
|--|------------------------------------|---|---|---|---|---------------------------------------|---|---|
| Cut volume, % | 100 | 1.89 | 8.32 | 21.89 | 20.51 | 21.54 | 23.12 | 2.74 |
| API Gravity, | 40.1 | 117.93 | 81.09 | 53.7 | 41.58 | 33.83 | 23.66 | 4.72 |
| Specific Gravity (60/60F), | 0.8246 | 0.5673 | 0.6656 | 0.764 | 0.8175 | 0.8559 | 0.912 | 1.0388 |
| Carbon, wt % | | 82.54 | 83.93 | 85.85 | 86.32 | 86.82 | 87.16 | |
| Hydrogen, wt % | 13.47 | 17.46 | 16.07 | 14.15 | 13.65 | 13.07 | 12.54 | |
| Pour point, F | 64 | | | | -59 | 21 | 104 | |
| Neutralization number (TAN), MG/GM | 0.26 | | | | | | | |
| Sulfur, wt% | 0.0947 | | | 0.0049 | 0.0277 | 0.0956 | 0.1888 | 0.5347 |
| Viscosity at 20C/68F, cSt | 3.24 | 0.36 | 0.43 | 0.81 | 1.9 | 6.63 | 182.78 | 1449120925 |
| Viscosity at 40C/104F, cSt | 2.1 | 0.31 | 0.36 | 0.66 | 1.38 | 3.85 | 53.97 | 10921488.81 |
| Viscosity at 50C/122F, cSt | 1.77 | 0.29 | 0.34 | 0.6 | 1.2 | 3.09 | 33.38 | 1613658.6 |
| Mercaptan sulfur, ppm | | | | 2.8 | 1.5 | | | |
| Nitrogen, ppm | 610 | 0 | 0 | 0.3 | 5.4 | 79.8 | 1121.5 | 8837.7 |
| CCR, wt% | 0.73 | | | | | 0 | 0.29 | 19.05 |
| N-Heptane Insolubles (C7 Asphaltenes), wt% | | | | | | | | 0.5 |
| Nickel, ppm | 1 | | | | | 0 | 0 | 28.7 |
| Vanadium, ppm | 0.5 | | | | | 0 | 0 | 14.4 |
| Calcium, ppm | 0.5 | | | | | | | |
| Reid Vapor Pressure (RVP) Whole Crude, psi | 6 | | | | | | | |
| Heat of Combustion (Gross), BTU/lb | 19807 | | | | | | | |
| Heat of Combustion (Net), BTU/lb | 18580 | 19064 | 18725 | 18547 | 18529 | | | |
| Hydrogen Sulfide (dissolved), ppm | 0 | | | | | | | |
| Salt content, ptb | 5 | | | | | | | |
| Paraffins, vol % | | 100 | 82.09 | 37.33 | 41.84 | 41.46 | 33.44 | |
| Naphthenes, vol % | | 0 | 17.17 | 49.72 | 38.3 | 38.15 | 31.08 | |
| Aromatics (FIA), vol % | | | | 12.95 | 16.46 | | | |
| Distillation type, D- | 1160 | 86 | 86 | 86 | 86 | 86 | 1160 | 1160 |
| ASTM IBP, F | 27.4 | -88.4 | 98.2 | 207.8 | 363.7 | 504.8 | 689 | 1036.5 |
| 5 vol%, F | 121.2 | -39.8 | 103.1 | 213.6 | 368.1 | 509.2 | 693.9 | 1041.3 |
| 10 vol%, F | 174.9 | 13.9 | 106 | 217 | 370.2 | 511.1 | 702.4 | 1045.7 |
| 20 vol%, F | 247.9 | 30.3 | 107 | 223.8 | 375.2 | 516.3 | 722.1 | 1058 |
| 30 vol%, F | 314.9 | 31.7 | 112 | 231.3 | 381.2 | 522.9 | 743.6 | 1073.7 |
| 40 vol%, F | 384.1 | 30.5 | 117.7 | 239.7 | 388.7 | 530.8 | 766.2 | 1093.7 |
| 50 vol%, F | 456.3 | 31.3 | 122.8 | 247.9 | 396 | 538.9 | 787.1 | 1118 |
| 60 vol%, F | 532.1 | 35.7 | 129.2 | 257.5 | 404.7 | 548.3 | 804.8 | 1149.7 |
| 70 vol%, F | 604.6 | 39.8 | 134.2 | 267.8 | 413.7 | 558.6 | 821.2 | 1187.6 |
| 80 vol%, F | 698.3 | 43.6 | 139.4 | 278.8 | 423.6 | 570.5 | 844 | 1244.1 |
| 90 vol%, F | 778.9 | 43.4 | 141.9 | 290.5 | 433.8 | 584.1 | 881.7 | 1331.1 |
| 95 vol%, F | 849.7 | 44.3 | 144.5 | 297.1 | 439.7 | 592.3 | 918.1 | 1394.4 |
| ASTM EP, F | 1215.2 | 46 | 147.2 | 308 | 444.5 | 604.1 | 968.9 | 1460.1 |
| Freeze point, F | | | | | -45 | 36 | | |
| Smoke point, mm | | | | | 21.2 | | | |
| Naphthalenes (D1840), vol% | | | | | 2.7 | | | |
| Viscosity at 100C/212F, cSt | 0.93 | 0.21 | 0.24 | 0.4 | 0.71 | 1.43 | 6.64 | 3127.74 |
| Viscosity at 150C/302F, cSt | 0.6 | 0.17 | 0.19 | 0.29 | 0.48 | 0.87 | 2.71 | 129.58 |
| Cetane Index 1990 (D4737), | 44 | 126.1 | 44.7 | 26.8 | 40.7 | 53 | 54.2 | 26.7 |
| Cloud point, F | | | | | | | | |
| Aniline pt, F | | | | | 135.1 | 158.9 | 182.2 | |