

LIBYAN NOC SARIR CRUDE OIL

SPECIFICATIONS

| Crude Oil Properties | |
|------------------------------|--------|
| Gravity, degrees API | 37.8 |
| Specific Gravity (60F/60F) | 0.8328 |
| Total Sulphur, ppm wt | 0.2600 |
| Merkaptan Sulphur, ppm wt | N/A |
| Total Nitrogen, wt.pct | 0.1100 |
| Pour point,degrees F | 66.0 |
| Viscosity at 70 deg.F,cs | 25.00 |
| Viscosity at 100 deg.F,cs | 10.00 |
| Vanadium,ppm wt | 6.00 |
| Nickel,ppm wt | 14.00 |
| Conradson Carbon, wt.pct. | 4.32 |
| Asphaltenes, wt.pct | 0.20 |
| n-Pentane Insolubles,wt.pct | N/A |
| Reid Vapor Pressure,psia | 5.00 |
| Flash Point.degrees F | N/A |
| Hydrogen Sulfide,ppm wt | N/A |
| Neutralization No,mg KOH/g | 0.15 |
| Bottom Water&Sediment,LVpct | 0.20 |
| Ash Content,wt.pct. | 0.00 |
| Salt (as NaCl),1bs/1000 bbls | 2.6 |

| Component LVPCT w pct | | |
|-----------------------|------|------|
| Methane | 0.00 | 0.00 |
| Ethane | 0.05 | 0.02 |
| Propane | 0.61 | 0.38 |
| Isobutane | 0.54 | 0.35 |
| Nor.Butane | 1.94 | 1.35 |
| Isopentane | 1.18 | 0.88 |
| Nor.Pentane | 1.76 | 1.33 |