

**KAZAKHSTAN / NETHERLANDS ORIGIN - LIGHT CYCLE OIL (LCO)**

| TEST                          | UNITS               | INTERNATINOAL SPECIFICATIONS | RESULT |
|-------------------------------|---------------------|------------------------------|--------|
| Sulphur content               | %                   | ASTM D4294-10                | <0.15  |
| Ash content                   | % (Mass)            | ASTM D482                    | 0.0005 |
| Carbon residue                | % (m/m)             | ASTM D4530                   | 0.0    |
| Density at 15oC               | Kg/l                | ASTM D1298-12b               | 0.8811 |
| Water Content                 | %                   | ASTM D4006                   | 0.0    |
| Flash point                   | OC                  | ASTM D93-15                  | 63     |
| Pour point                    | OC                  | ASTM D97-12                  | -15    |
| Viscosity (40OC)              | MM2/S               | ASTM D445-15                 | 2.719  |
| Chroma                        | ASTM Color          | ASTM D1500-12                | 1      |
| Benzene                       | % (volume fraction) | ASTM D5580-13                | <0.10  |
| Toulene                       | % (volume fraction) |                              | <1.00  |
| Xylene                        | % (volume fraction) |                              | <1.00  |
| Naphthalene                   | % (mass fraction)   | ASTM D2425-04(2009)          | 1.1    |
| Total aromatics               | % (mass fraction)   |                              | 54.4   |
| Primary distillate            | OC                  | ASTM D86-12                  | 167.5  |
| 5% distillate                 | OC                  |                              | 189.9  |
| 10% distillate                | OC                  |                              | 202.1  |
| 50% distillate                | OC                  |                              | 279.9  |
| 90% distillate                | OC                  |                              | 350.8  |
| 95% distillate                | OC                  |                              | 368.1  |
| Final distillation            | OC                  |                              | 380.9  |
| Olefin content                | % (volume fraction) | ASTM D1319-14                | 4      |
| Aromatics content             | % (volume fraction) |                              | 56.4   |
| Saturated hydrocarbon content | % (volume fraction) |                              | 39.6   |
| Sixteen alkanes index         | /                   | ASTM D976-06                 | 39.1   |