



QUALITY SPECIFICATIONS

Document Code

PRODUCT NAME: VERY LOW SULPHUR FUEL OIL

| PROPERTY | METHOD | UNITS | SPECIFICATION |
|------------------------------|-------------|--------------------|---------------|
| Kinematic Viscosity @ 50°C | ASTM D445 | mm ² /s | 180 Max |
| Density @ 20°C | ASTM D 4052 | kg/m ³ | Report |
| Density @ 15°C | Calculated | kg/m ³ | 991.0 Max |
| Flash Point | ASTM D93 | °C | 60 Min |
| CCAI | Calculated | - | 870 max |
| Sulphur | ASTM D4294 | % mass | 0.5 max |
| Hydrogen Sulfide | IP570 | mg/kg | 2.00 max |
| Acid Number | ASTM D664 | mg KOH/g | 2.5 max |
| Total Sediment Aged | ISO 10307-2 | % mass | 0.1 Max |
| Carbon residue: Micro method | ASTM D4530 | % mass | 18.00 Max |
| Pour Point | ASTM D97 | °C | 30 Max |
| Water Content | ASTM D95 | % Volume | 0.50 Max |
| Ash | ASTM D482 | % mass | 0.1 Max |
| Vanadium | IP501 | mg/kg | 350 Max |
| Sodium | IP501 | mg/kg | 100 Max |
| Aluminium plus Silicon | IP501 | mg/kg | 60 Max |
| Calcium | IP501 | mg/kg | 30 Max |
| Zinc | IP501 | mg/kg | 15 Max |
| Phosphorus | IP501 | mg/kg | 15 Max |
| Compatibility test | ASTM D4740 | - | 1 |

Remarks:

Specifications extracted from ISO 8217:2017(E) under Residual Marine fuels – RMG 180.