

Residual fuels RMA, RMB, RMD, RME, RMF, RMG, RMH, RMK

| Characteristics | Unit | Limit | Category ISO -F- | | | | | | | | | | Test methods (see notes*) |
|-----------------------------|------------------------|-------|-----------------------------------|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------------------------------|
| | | | RMA | RMB | RMD | RME | RMF | RMG | RMH | RMK | MRH | RMK | |
| | | | 30 | 30 | 80 | 180 | 180 | 380 | 380 | 380 | 700 | 700 | |
| Density at 15°C | kg/m ³ | max. | 960.0 | 975.0 | 980.0 | 991.0 | 991.0 | 991.0 | 991.0 | 1010.0 | 991.0 | 1010.0 | ISO 3675 or ISO 12185 |
| Kinematic viscosity at 50°C | mm ² /s (a) | max. | 30.0 | 30.0 | 80.0 | 180.0 | 180.0 | 380.0 | 380.0 | 380.0 | 700.0 | 700.0 | ISO 3104 |
| Flash point | °C | min. | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | ISO 2719 |
| Pour point (upper) (b) | °C | max. | 0 | 24 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | ISO 3016 |
| - winter quality | | | | | | | | | | | | | |
| - summer quality | | | | | | | | | | | | | |
| Carbon residue | % (m/m) | max. | 10 | 10 | 14 | 15 | 20 | 18 | 22 | 22 | 22 | 22 | ISO 10370 |
| Ash | % (m/m) | max. | 0.10 | 0.10 | 0.10 | 0.10 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | ISO 6245 |
| Water | % (V/V) | max. | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | ISO 3733 |
| Sulphur (c) | % (m/m) | max. | 3.50 | 3.50 | 4.00 | 4.50 | 4.50 | 4.50 | 4.50 | 4.50 | 4.50 | 4.50 | ISO 8754 or ISO 14596 |
| Vanadium | mg/kg | max. | 150 | 150 | 350 | 200 | 500 | 300 | 600 | 600 | 600 | 600 | ISO 14597 or IP 501 or IP 470 |
| Total sediment potential | % (m/m) | max. | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | ISO 10307-2 |
| Aluminium plus silicon | mg/kg | max. | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | ISO 10478 or IP 501 or IP 470 |
| Used lubrication oil (ULO) | | | The fuel shall be free of ULO (d) | | | | | | | | | | |
| Zinc | mg/kg | max. | | | | | | | | | | | IP 501 or IP 470 |
| Phosphorus | | max. | | | | | | | | | | | IP 501 or IP 500 |
| Calcium | | max. | | | | | | | | | | | IP 501 or IP 470 |

