INTERNATIONAL STANDARD ISO 8217:2010 (E)

Petroleum Products, Specifications of residuals marine fuels

Designation ISO Fuel

CATEGORY ISO -F-Characteristics Unit Limit Test method RMA RMB RMD RME RMG RMK reference 500 10 (a) 380 500 700 380 700 30 80 180 180 380.0 500.0 700.0 ISO 3104 30.00 180.00 180.0 380.0 500.0 700.0 Kinematic Viscosity at 50°C (b) mm2/s max 10.00 80.00 Density at 15°C 920.0 975.0 991.0 see 7.1 ISO 3675 or ISO 12185 960.0 991.0 1010.0 ka/m³ max CCAI 850 860 860 860 870 870 see 6.3 a) max see 7.2 ISO 8754 ISO 14596 Sulfur (c) mass % Statutory requirements max. °C Flash Point min 60.0 60.0 60.0 60.0 60.0 60.0 see 7.3 ISO 2719 2.00 Hydrogen Sulfide (d) mg/kg 2.00 2.00 2.00 2.00 2.00 IP 570 max 2.5 Acid Number Ma KOH/a 2.5 2.5 2.5 2.5 2.5 ASTM D664 max mass % see 7.5 ISO 10307-2 Total Sediment aged max 0.10 0.10 0.10 0.10 0.10 0.10 Carbon Residue - micro method ISO 10370 mass % 2.50 10.00 14.00 15.00 18.00 20.00 max °C 0 0 30 30 30 30 ISO 3016 Winter Quality max. Pour point (upper) f °C 6 6 30 30 ISO 3016 Summer Quality max 30 30 ISO 3733 Water Vol % max 0.30 0.50 0.50 0.50 0.50 0.50 Ash mass % 0.040 0.070 0.070 0.070 0.100 0.150 ISO 6245 max see 7.7 IP 501. IP 470 or ISO 14597 Vanadium mg/kg 50 150 150 150 350 450 max Sodium 50 100 100 50 100 100 see 7.8 IP 501 IP470 ma/ka max. Aluminum plus silicon 25 40 40 50 60 see 7.9 IP 501, IP 470 or ISO 10478 60 mg/kg max. The fuel shall be free from ULO. A fuel shall be considered to contain ULO when either one of Used Lub oils (ULO) Calcium and Zinc: mg/kg the following conditions is met: see 7.10 IP 501 or IP470 IP 500 -Calcium > 30 and Zinc> 15 or Calcium > 30 and phosphorus> 15 or Calcium and phosphorus

Petroleum

INTELLIGENT BUNKER BUYING SOLUTIONS

