

Characteristic	Unit	Limit	Category ISO - F -											Test Method Reference
			RMA	RMB	RMD	RME	RMG				RMK			
			10 ^a	30	80	180	180	380	500	700	380	500	700	
Kinematics Viscosity at 50°C ^b	mm ² /s	max	10,00	30,00	80,00	180,0	180,0	380,0	500,0	700,0	380,0	500,0	700,0	ISO 3104
Density at 15°C	kg/m ³	max	920,0	960,0	975,0	991,0	991,0				1010,0			ISO 3675 or ISO 12185
CCAI	-	max	850	860	860	860	870				870			-
Sulfur ^c	mass %	max	Statutory Requirements											ISO 8754 or ISO 14596
Flash Point	°C	min	60,0	60,0	60,0	60,0	60,0				60,0			ISO 2719
Hydrogen Sulfide	mg/kg	max	2,00	2,00	2,00	2,00	2,00				2,00			IP 570
Acid Number	mg KOH/g	max	2,5	2,5	2,5	2,5	2,5				2,5			ASTM D664
Total Sediment Aged	mass %	max	0,10	0,10	0,10	0,10	0,10				0,10			IS 10307 - 2
Carbon Residue: Micro Method	mass %	max	2,50	10,00	14,00	15,00	18,00				20,00			ISO 10370
Pour Point (Upper) ^d	Winter Quality	°C	0	0	30,0	30,0	30,0				30,0			ISO 3016
	Summer Quality	°C	6	6	30,0	30,0	30,0				30,0			ISO 3016
Water	volume %	max	0,30	0,50	0,50	0,50	0,50				0,50			ISO 3733
Ash	mass %	max	0,040	0,070	0,070	0,070	0,100				0,150			ISO 6245
Vanadium	mg/kg	max	50	150	150	150	350				450			ISO 14597
Sodium	mg/kg	max	50	100	100	50	100				100			IP 501 or IP 470
Aluminum plus Silicon	mg/kg	max	25	40	40	50	60				60			ISO 10478
Used Lubricating Oils (ULO):	mg/kg	-	The fuel shall be free from ULO.A fuel shall be considered to contain ULO when either one of the following condition is met:											IP 501
- Calcium and Zinc; or			- Calcium > 30 and Zinc > 15; or											IP 470
- Calcium and Phosphorus			- Calcium > 30 and Phosphorus > 15											IP 500

a This category is based on a previously defined distillate DMC category that was described in ISO 8217 2005.

b 1 mm²/s = 1 cSt.

c The purchaser shall define the maximum sulfur content in accordance with relevant statutory limitations.

d Purchasers shall ensure that this pour point is suitable for the equipment on board, especially if the ship operates in cold climates.