Residual & Distillate Marine Fuels - ISO Fuel Standard 8217:2017 (E)

Parameter		Unit	Limit	IF500		IF380		IF180		MGO	
				RMG500	RMK500	RMG380	RMK380	RME180	RMG180	DMA/DFA*	DMX
Density	- at 15°C	kg/m³	max	991	1010	991	1010	991		890	-
Viscosity	- at 50°C	mm²/s	max	500		380		180		-	-
	- at 40°C		min/max	-		-		-	-	2.0/6.0	1.4/5.5
CCAI		-	max	870		870		860	870	-	-
Flash Point		°C	min	60		60		60		60	43
Pour Point	- Winter	°C	max	30		30		30		- 6	-
	- Summer			30		30		30		0	-
Carbon Residue	- Micro Method	mass%	max	18	20	18	20	15	18	-	-
	- Micro Method			-	-	-	-	-	-	-	
Carbon Residue	- Micro Method on 10%	mass%	max	-	-	-	-	-	-	0.3	
Ash		mass%	max	0.1	0.15	0.1	0.15	0.07	0.1	0.01	
Water		volume %	max	0.5		0.5		0.5		-	-
Sulfur		mass%	max							1.0 *	1.0
Vanadium		mg/kg	max	350	450	350	450	150	350	-	-
Sodium		mg/kg	max	100		100		50	100	-	-
Sediment	- Total Sediment Aged	mass%	max	0.1		0.1		0.1		-	-
	- Total Sediment by Hot Filtration			-	-	-	-	-	-	-	-
Aluminium plus Silicon		mg/kg	max	60		60		50	60	-	-
Hydrogen Sulfide		mg/kg	max	2.0		2.0		2.0		2.0	
Acid Number		mg KOH/g	max	2.5		2.5		2.5		0.5	
Oxidation Stability		g/m3	max	-	-	-	-	-	-	25	
Fatty Acid Methyl Ester (FAME)*		volume %	max	-	-	-	-	-	-	- / 7.0 *	-*
Lubricity		µm	max	-	-	-	-	-	-	520	
Cetane Index		-	min	-	-	-	-	-	-	40	45
Cloud Point *	- Winter *	°C	max	-		-		-		report *	-16 *
	- Summer *			-		-		-		-*	-16 *
Cold Filter Plugging Point*	- Winter *	°C	max	-		-		-		report *	-*
	- Summer *			-		-		-		-*	-*
Appearance		-	-	-	-	-	-	-	-	Clear and Bright	
Used Lubricating Oil (ULO)	calcium and zinc; or calcium and phosporus	mg/kg	-	The fuel shall be free from ULO. A fuel shall be considered to contain ULO when either one of the following conditions is met: calcium >30 and zinc >15; or calcium >30 and phosphorus >15							

(Fifth Edition published on 12 Feb 2018)

* Denotes changes to the last edition

PETRO-OCEAN TRADING CO., LTD.