



LankaIOCPLC

**INTERNATIONAL STANDARD ISO 8217:2017
PETROLEUM PRODUCTS–FUELS (CLASSF)–SPECIFICATIONS OF MARINE
FUELS REQUIREMENT FOR MARINE RESIDUAL FUELS**

CHARACTERISTICS		UNIT	TEST METHOD	LIMIT	SPECIFICATIONS
VISCOSITY @ 50°C		cSt	ISO 3104: 2023 ASTMD 445	Min.	80
				Max	380
DENSITY @ 15°C		kg/m ³	ISO 3675 or 12185 :1998 ASTMD 1298	Max.	991
CCAI		Calculated	ISO 8217	Max.	870
SULPHUR		mass%	ASTMD 4294 ISO 8754 or 14596 :2003	Max.	0.490
FLASH POINT		°C	ISO 2719:2016 ASTMD 93	Min.	60
HYDROGEN SULPHIDE		Mg/Kg	IP 570 – 14A	Max.	2.00
TOTAL ACID NUMBER		MgKOH/g	ASTMD 664 – 24	Max.	2.0
TOTAL SEDIMENT POTENTIAL		mass%	ISO 10307-02 AGED	Max.	0.07
MICRO METHOD CARBON RESIDUE		mass%	ISO 10370 / ASTMD 4530	Max.	18
POUR POINT	WINTER	°C	ISO 3016 / ASTMD 97	Max.	+ 24
	SUMMER	°C		Max	+ 24
WATER		volume%	ISO 3733 / ASTMD 95	Max.	0.40
ASH		mass%	ISO 6245 / ASTMD 482	Max.	0.10
VANADIUM		mg/Kg	IP 501,470	Max.	350
SODIUM		mg/Kg	IP 501,470	Max.	95
ALIMINUM + SILICON		mg/Kg	IP 501,470	Max.	55
ZINC		mg/Kg	IP 501,470	Max.	15
PHOSPHORUS		mg/Kg	IP 501,470	Max.	15
CALCIUM		Mg/Kg	IP 501,470	Max.	30
USED LUBRICANT OIL (ULO): CALCIUM & ZINC OR CALCIUM & PHOSPHORUS		Mg/kg	IP 501	Fuel shall be free of ULO and shall be considered to contain ULO when either one of the following is met, Calcium >30 & Zinc >15 or Calcium>30 & Phosphorus >15	

The fuels supplied shall be homogeneous blends of hydrocarbons derived from petroleum refining. This shall not preclude the incorporation of small amounts of additives intended to improve some aspects of performance. The fuel shall be free from inorganic acids and from used lubricating oils. Fuel should not include any added substances or chemical waste which,

- a) Jeopardizes the safety of ships or adversely affects the performance of the machinery or
- b) Is harmful to personnel or
- c) Contributes overall to additional air pollution

NOTES; Fuel shall be free of used lubricant oil (ULO)
The test method shall be ISO or relevant ASTM method
Sulfur test result to be reported to three decimal places