

12.6 Diesel engine

Unit	Item	Specification
Diesel engine	Type	Cummins QSB4.5-C
	Number of cylinders	4
	Power rating [kW]	119 (at 2400 rpm)
	Temperature control	Liquid cooled
	Operation speed [rpm]	2400 (electronically controlled)
	Injection	Direct injection
	Max. operating temp [°C]	55
Fuel tank	Capacity [L]	100
	Average running time on full tank [h]	4 (at average power consumption)
	Level control	Level sensor, with read-out to fuel gauge and monitor Minimum level switch in tank
Fuel	Down to 0 °C	Summer diesel (NATO F-54)
	0 °C to -15 °C	Summer diesel with 60% kerosine, or winter diesel
	-15 °C to -32 °C	Kerosine (NATO F-34 / JP8)
Lubricating oil	Down to -20 °C	OMD-90 (NATO O-1176)
	Below -20 °C	OMD-55 (NATO O-1178) ¹
Coolant	Standard	ASTM 4985 or ASTM D6210, for operating temperature of -32 °C
	Recommendation	Premix coolant (STS P/N 140851). This contains 50% ethylene glycol antifreeze and 50% water for ambient temperatures down to -32 °C.

¹ When you use the unit again at temperatures above -20 °C, you do not need to replace OMD-55 until the next scheduled oil change is necessary.