Marine Genset - Construction Re

Marine Inspection Checklist | https://marineinspection.app/

Inspector Name		Date		Signature	

Air Systems

Inspection Item	Note	Good	Repair	Replace	NA
Are the vent tubes of the crankcase breather installed?		■	■	■	■
Are crankcase fumes discharged directly into the atmosphere?		■	■	■	■
Does the exhaust venting of fumes use each engine's individual system?		■	■	■	■
Does the weight of the vent pipe have good support?		■	■	■	■
Does the horizontally installed vent pipe have a gradual descent of 40mm/m?		■	■	■	■
Is the drain point installed at the lowest point of the venting pipe?		■	■	■	■
Is the flexible connection properly installed?		■	■	■	■

Cooling System

Inspection Item	Note	Good	Repair	Replace	NA
Has an appropriate coolant inhibitor been used?		■	■	■	■
What cooling system does this engine use?		■	■	■	■
Is the Jacket Water Circuit filled with 50/50 water-to-glycol?		■	■	■	■
Is the Aftercooler SCAC circuit filled with 80/20 water-to-glycol?		■	■	■	■
Is the coolant fully charged, up to the bottom of the filling neck?		■	■	■	■
Is access to clean the exchanger sufficient?		■	■	■	■
Has a flexible connection been installed?		■	■	■	■
Is the Marine Gear Oil Cooler connected?		■	■	■	■
Where is the position of the sea water pump?		■	■	■	■
Is the goose neck pipe installed on the inlet side?		■	■	■	■
Has a check valve / non return valve been installed on the inlet side to prevent seawater from spilling again?		■	■	■	■
Is the sea water strainer installed?		■	■	■	■
Is the mesh size of the sea water strainer between 1.6-2mm?		■	■	■	■

Engine Bonding System

Inspection Item	Note	Good	Repair	Replace	NA
Is the engine bonding system installed?		■	■	■	■

Inspection Item	Note	Good	Repair	Replace	NA
Is the engine bonding system installed in the same seawater column?		■	■	■	■
Is the engine bonding system installed on a zinc anode which is always submerged in seawater?		■	■	■	■
Has the bonding cable used a minimum cable size of #8AWG?		■	■	■	■
Is there no other system in contact with the engine bonding system?		■	■	■	■

Exhaust System

Inspection Item	Note	Good	Repair	Replace	NA
Is the exhaust piping installed with the same resistance on each bank?		■	■	■	■
Has the exhaust below been installed properly?		■	■	■	■
Is the exhaust piping directly supported rigidly after being released from below?		■	■	■	■
Is the installation of the exhaust pipe between the engines separate?		■	■	■	■
Are the pipe diameters, lengths and bends correct?		■	■	■	■
Are all exhaust pipes insulated and protected by mechanical lagging?		■	■	■	■
Is the water trap drain installed in the exhaust system?		■	■	■	■

Fuel System

Inspection Item	Note	Good	Repair	Replace	NA
Where is the position of the daily fuel tank?		■	■	■	■
If the fuel tank is set higher, is a check valve with backpressures set installed?		■	■	■	■
Are the internal diameters of the fuel lines inlet and outlet the same or larger than the engine connection?		■	■	■	■
Is all the air trapped in the system removed before starting the engine?		■	■	■	■
Is the length of the fuel flexible connection no more than 30 inches?		■	■	■	■
Has the customer installed a primary fuel filtration system / water separator with a maximum mesh of 10microns		■	■	■	■
Have the pipes and fuel tanks been cleaned?		■	■	■	■
Are there no galvanic or similar fuel pipes used?		■	■	■	■

Lubrication Oil System

Inspection Item	Note	Good	Repair	Replace	NA
Is the lub oil used in accordance with the CAT® standard?		■	■	■	■

Others

Inspection Item	Note	Good	Repair	Replace	NA
Has the customer ensured that all coolants, cooling pipes, lube oil pipes, fuel oil pipes, exhaust pipes, intake ducting, are free from all dirt, rust, welding spatter, and other foreign materials before starting the engine?		■	■	■	■
Has the customer made an engine foundation that complies with MCS rules?		■	■	■	■
Has the customer done a megger and resistance test before starting the generator?		■	■	■	■
Is there sufficient distance and space to be able to disassemble the engine including lifting eye?		■	■	■	■
Are engines and accessories properly and properly protected during construction?		■	■	■	■

Starting System

Inspection Item	Note	Good	Repair	Replace	NA
Is the battery position close to the starting motor?		■	■	■	■
Is the battery placed in a special place?		■	■	■	■
Is the battery cable used in accordance with the standard length, diameter, and type?		■	■	■	■