

SHANKS
Sup No. 1624.

Specification of Generators.

3 Diesel Driven Generating Sets, each having a capacity of 75 k.w. at 220 volts D.C. when running at 350 r.p.m. Complete with 3 heat exchangers, having cupro nickel tubes, each capable of cooling the total quantity of water required for one engine through 26°F assuming inlet temperature of the salt water to be 88°F. Each generator set to comprise one 6S47 Allen vertical airless injection, compression, ignition type oil engine, 4 cycle, generally in accordance with your leaflet SD2005, direct coupled to an Allen Generator, of the multi-polar continuous current, single bearing marine type, the engine and generator being mounted on a common bedplate, together with a shunt field regulator for switchboard mounting. The engine to be arranged for immediate starting from cold by compressed air admitted to the cylinders. The following equipment to be supplied with

each engine:-

1 Starting air receiver

Exhaust manifold.

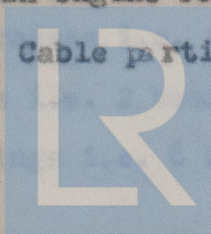
" silencer.

~~Set of spanners and tools.~~

Lubricating oil cooler.

" " pump.

To your drawing No.K102470. Height of handrail in way of armature is to be suitable for an engine room floor height of '0" above base of generator. Cable particulars will be forwarded later



Lloyd's Register
Foundation

W71-0041 (1/5)

Intercoastal Plate...

Foundation Plate on

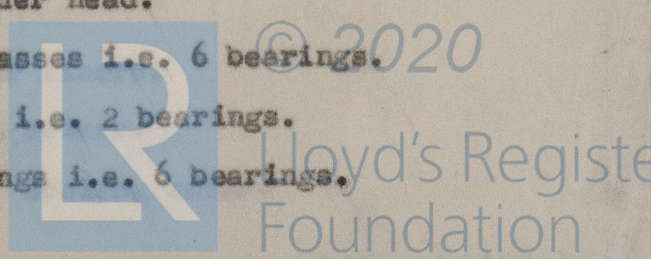
spacing

Third Deck, amidships

All electrical gear to be in accordance with the requirements of the Port Line Ltd., and Lloyds, and suitable for service under tropical conditions at sea. Motors to have a temperature rise not exceeding 63°F after 6 hours full load run. Cable glands of Artic Fuse Co's make and suitable for armoured and lead covered cable, to be supplied.

Spare Gear -

- 1 Cylinder head with studs and nuts complete
- 1 Cylinder liner
- 1 Piston with gudgeon pin assembled
- 2 connecting rod bottom end bolts and nuts
- 8 main bearing studs and 24 nuts.
- 48 piston rings and 12 scraper rings.
- 3 fuel injectors.
- 3 exhaust valves complete assembled.
- 3 starting valves.
- 3 each roller pins, rollers and bushes.
- 3 fuel pumps complete.
- 3 fuel pump delivery valves and seats.
- 6 atomiser needles and nozzles.
- 1 fuel oil filter cartridge.
- 1 lubricating oil filter cartridge.
- 1-3/8 air cock for cylinder head.
- 1 safety valve for cylinder head.
- 12 halves main bearing brasses i.e. 6 bearings.
- 4 halves thrust bearings i.e. 2 bearings.
- 6 pairs bottom end bearings i.e. 6 bearings.



- 6 gudgeon pins.
- 6 gudgeon pin bearings.
- 1 dynamo bearing.
- 1 lubricating pump unit.
- 4 lubricator glasses.
- 12 rubber joints.
- 1 driving chain.
- 6 fuel pressure pipes with nuts.

Springs -

- 4 inlet and exhaust valve springs (inner) i.e. 8.
- 4 inlet and exhaust valve springs (outer) i.e. 8.
- 12 inlet and exhaust valve push rod springs.
- 1 governor cut out spring.
- 3 starting valve push rod springs.
- 6 fuel pump main springs.
- 6 fuel pump push rod springs.
- 6 fuel pump delivery valve springs.
- 6 fuel pump cut out springs X47H34.
- 3 pump cut out springs X47H40.
- 3 fuel pump cut out springs X47H41.
- 1 Governor spring.
- 1 Control gear handle spring.
- 1 Set springs for mechanical lubricator (6)
- 1 " " " " " plunger (6)

Rubber Rings -

- 34 rubber rings for cylinder liners.
- 24 copper " " exhaust valves.
- 24 rubber " " " cooling water.

Electrical Spares -

- 1 set main field coils (shunt and series)
- 54 spare brushes and
- 9 brush holders.

Tools and Overhauling Gear for Generators -

- 3 each 2", 1½", 1¼", 1⅛", 1" and ⅞" spanners.
- 3 each double ended spanners, ¼" to 3/16", 5/16", to ⅜"
7/16" to ½", ⅝" to ¾", and 9/16" to 11/16".
- 24 box spanners.
- 3 wrenches for inlet and exhaust valves.
- 3 lifting bars for cylinder cover.
- 3 turning bars for flywheel.
- 3 lifting bars for pistons.
- 3 priming levers.
- 6 tommy bars.
- 1 bridge.
- 1 handle.
- 2 distance pieces for cylinder cover.
- 1 - 47 m.m. spanner for fuel pump.
- 1 tool box.
- 1 spanner rack.
- 2 brackets.
- 1 tool for spring ring on inlet and exhaust valves.
- 1 - 22 m.m. spanner for fuel pump.
- 1 - 14-19 m.m. spanner for fuel pump.
- 1 thrust bearing removal pin.
- 1 piston entering ring.
- 1 box containing (3) bridge gauges.
- 1 wedge gauge.

- 1 feeler gauge.
- 4 - 1/2" studs, bolts and nuts.
- 2 distance collars and 4 distance tubes,
- 1 set of liner withdrawing gear.
- 3 valve spring screws.
- 6 bearing shell removal pins.
- 6 - 1/2" lifting eyes.
- 6 - 5/8" " "
- 3 nozzle prickers.
- 3 grease guns.
- 3 delivery valve extractor tools for fuel pump.



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NEPTUNE WORKS, WALKER,
NEWCASTLE UPON TYNE.6.
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Intercoastal Plate...}

Spacing.....