

Lloyd's Register of Shipping.

55506

(Report on Machinery, No.

Port GLASGOW)

G 17

ELECTRIC GENERATOR OR MOTOR.

I have to report that the Generator as herein described, rated 120 ^{K.W.} _{H.P.} manufactured by W H Allen & Sons of Bedford for the Ship No. 872, being built by Lithgow of Port Glasgow. has been inspected by me as set forth below, and found to be, so far as can be seen, sound and free from defects. This has been tested, and complies with the requirements of the Rules.

G. O. Watson
London

Temperature Test* Coupled to engine Date of Testing 16 Nov 1934

| Machine Number. | Duration of Test. | | Speed. | Load. | | Shunt Field. | | | | |
|---|--|-------------|--------------|-------------|--------------|--------------|---------------|-------------|--------------|-------------|
| | Hours. | Mins. | r.p.m. | Volts. | Amps. | <i>Amps</i> | <i>Volts</i> | | | |
| 45398/1 | 6 | — | 425 | 220 | 545 | 48/5.9 | 125/160. | | | |
| Mean Air Temperature at End of Test. | MAXIMUM RECORDED MACHINE TEMPERATURES. | | | | | | | | | |
| | Armature. | | Commutator. | | Shunt Field | | Series Field. | | Interpoles. | |
| | Actual temp. | Temp. rise. | Actual temp. | Temp. rise. | Actual temp. | Temp. rise. | Actual temp. | Temp. rise. | Actual temp. | Temp. rise. |
| 61 °F | 114°F | 53°F | 110°F | 49°F | 123°F | 62°F | 115°F | 54°F | 123°F | 62°F |

*If this machine is acting as a motor for "Hopkinson" or "Back to Back" test, state number of machine and ship reference of machine acting as generator

Compounding Test (for generators).

| Load. | Speed. | | Shunt Field. | | Machine Load. | |
|-----------------|--------|--|--------------|-------|---------------|------|
| | r.p.m. | | Volts. | Amps. | Volts. | Amp. |
| Full Load - - - | 425 | | 152 | 5.3 | 220 | 545 |
| No Load - - - | 445. | | 152 | 5.3 | 220. | 0 |

Insulation Tests (taken after the temperature test):—

Insulation resistance 30. megohms.

High voltage test 2000. A.C. volts for one minute between windings and frame.

Particulars of other tests applied:—

10% overload for 2 hours. Max temp. rise 7/4 °F.

Marks on forgings or castings (if any)

Dates of inspection and tests 21. 9. 34

Fee £ : : : :

Expenses £ : : : :

See London Rpt No 100,868

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