

Rpt. 7b.

For the information of Surveyors and the Committee only.

Received at

Office.

19

33

Lloyd's Register of Shipping.

G.5.

(Report on Machinery, No.

Port

ELECTRIC GENERATOR OR MOTOR.

I have to report that the Generator, as herein described, rated 330 K.W. manufactured by The General Electric Co. Ltd. of Birmingham for the Ship No. 933, being built by Harland & Wolff of 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.

Geo. Lang
London.

No. 1 on Ship.

Temperature Test* Generating Date of Testing 24 Aug 1934

| Machine Number. | Duration of Test. | | Speed. | Load. | | Shunt Field. | | | | |
|-----------------------------------------|----------------------------------------|----------------|-----------------|----------------|-----------------|----------------|-----------------|----------------|-----------------|----------------|
| | Hours. | Mins. | r.p.m. | Volts. | Amps. | Volts. | Amps. | | | |
| B 81247. | 6 | — | 300. | 220 | 1500. | 190 | 11.6 | | | |
| 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. |
| 24 °C | 59 °C | 35 °C | 49 °C | 25 °C | 60 °C | 36 °C | 61.5 °C | 37.5 °C | 48 °C | 24 °C |

*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 - - - | <u>300</u> | <u>190</u> | <u>11.6</u> | <u>222</u> | <u>1500</u> |
| No Load - - - | <u>315</u> | <u>190.</u> | <u>11.6</u> | <u>222</u> | <u>0</u> |

Insulation Tests (taken after the temperature test):—

Insulation resistance 50 megohms.High voltage test 2000. A.C. volts for one minute between windings and frame.

Particulars of other tests applied:—

25% overload for 2 hours.Marks on forgings or castings (if any) ☒Dates of inspection and tests 24/8/34Fee £ 1 : 15 : 0 (115.0)Expenses £ 1 : 3 : 3 To be collected by Birmingham

© 2020

Lloyd's Register
Foundation