

Lloyd's Register of Shipping.

G64.

(Report on Machinery, No. 11659 Port Belfast)

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 Winton, Birmingham for the Ship No. 957, being built by Harland and Wolff of Belfast 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.

J.A. Jaffrey
London 31.12.35

Temperature Test* B.82992 and No 957 Date of Testing 30th 7.35

| Machine Number. | Duration of Test. | | Speed. | Load. | | Shunt Field. | |
|-----------------|-------------------|----------|------------|------------|-------------|--------------|-------------|
| | Hours. | Mins. | r.p.m. | Volts. | Amps. | Volts. | Amps. |
| <u>B. 82995</u> | <u>6</u> | <u>0</u> | <u>300</u> | <u>220</u> | <u>1500</u> | | <u>10.5</u> |

| 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. |
| <u>25</u> °C | <u>57</u> °C | <u>32</u> °C | <u>55</u> °C | <u>30</u> °C | <u>47</u> °C | <u>22</u> °C | <u>55.5</u> °C | <u>30.5</u> °C | <u>51</u> °C | <u>26</u> °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~~ motor B.82992.

Compounding Test (for generators).

| Load. | Speed. | Shunt Field. | | Machine Load. | |
|-----------------|------------|--------------|-------------|---------------|-------------|
| | r.p.m. | Volts. | Amps. | Volts. | Amp. |
| Full Load - - - | <u>300</u> | | <u>10.5</u> | <u>220</u> | <u>1500</u> |
| No Load - - - | <u>315</u> | | <u>10.5</u> | <u>220</u> | <u>0</u> |

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:— 25% overload satisfactory

Marks on forgings or castings (if any)

Dates of inspection and tests 30.7.35

Fee £

Expenses £

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W1128-0277