

Rpt. 7b

For the information of Surveyors and the Committee only.

Received at

Office.

19

# Lloyd's Register of Shipping.

G. 2.

(Report on Machinery, No.

Port

## ELECTRIC GENERATOR OR MOTOR.

I have to report that the Generators as herein described, rated 330 K.W. H.P. 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.

No. 1 on Ship.

C. O. Watson  
London

Temperature Test\* Generating

Date of Testing 1<sup>st</sup> Aug 1934

Machine Number.	Duration of Test.		Speed.	Load.		Shunt Field.				
	Hours.	Mins.	r.p.m.	Volts.	Amps.	Volts.	Amps.			
B81245.	6	0.	300.	220	1500.	179	11.45			
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.
28.9 °C	63.5 °C	34.6 °C	57.5 °C	28.6 °C	63.5 °C	34.6 °C	70.8 °C	41.9 °C	56. °C	27.1 °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. r.p.m.	Shunt Field.		Machine Load.	
		Volts.	Amps.	Volts.	Amp.
Full Load - - -	<u>300</u>	<u>187</u>	<u>12.2</u>	<u>222</u>	<u>1500</u>
No Load - - -	<u>315</u>	<u>187</u>	<u>12.2</u>	<u>222</u>	<u>0</u>

Insulation Tests (taken after the temperature test):—

Insulation resistance 100 megohms.

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

Particulars of other tests applied:—

\* A diverter was fitted after the temperature test to divert approx. 20% of full load current, in order to reduce this temperature rise to Rule limit

Marks on forgings or castings (if any) ✓

Dates of inspection and tests 1/8/34

Fee £ 1 : 15 : 6 (1.15.0)

Expenses £ 1 : 3 : 3 To be collected by Regent



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