

pt. 7b.

For the information of Surveyors and the Committee only.

Received at _____ Office _____ 19 _____

Lloyd's Register of Shipping.

G 5 (Report on Machinery, No. 55517 Port GLASGOW)

ELECTRIC GENERATOR OR MOTOR.

I have to report that the Generator. as herein described, rated 300 K.W. manufactured by Messrs Harland & Wolff Ltd of Belfast for the Ship No. 944, being built by Messrs Harland & 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.

W. Haffner.
Glasgow.

Temperature Test* Coupled to Engine Date of Testing 21st February 1935.

Machine Number.	Duration of Test.		Speed.	Load.		Shunt Field.				
	Hours.	Mins.	r.p.m.	Volts.	Amps.	Volts.	Amps.			
2565	6	—	270	222	1350	168	8.6			
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.
13.8 °C	47.7 °C	33.9 °C	38.8 °C	25 °C	46.1 °C	32.3 °C	38.2 °C	24.4 °C	41 °C	27.2 °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>270</u>	<u>168</u>	<u>8.6</u>	<u>222</u>	<u>1350</u>
No Load - - -	<u>283</u>	<u>168</u>	<u>8.6</u>	<u>220</u>	<u>0.</u>

Insulation Tests (taken after the temperature test):—

Insulation resistance 3.0 megohms.

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

Particulars of other tests applied:— 10% overload for 15 minutes

Marks on forgings or castings (if any) (Armature shaft) Lloyd's No 82. R.H.A. 6.12.34

Dates of inspection and tests 21. 2. 35

Fee £ 2 : 2 : 0

Expenses £ _____ : _____ : _____ 18 MAR 1935

