

pt. 7b

For the information of Surveyors and the Committee only.

Received at _____ Office _____ 19 _____

Lloyd's Register of Shipping.

(Report on Machinery, No. 55517 Port GLASGOW)

G 4 ELECTRIC GENERATOR ~~OR MOTOR~~.

may be required.

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

Temperature Test* Coupled to engine Date of Testing 25-1-35.

Machine Number.	Duration of Test.		Speed.	Load.		Shunt Field.				
	Hours.	Mins.	r.p.m.	Volts.	Amps.	Volts.	Amps.			
<u>2554</u>	<u>6</u>	<u>—</u>	<u>270</u>	<u>222</u>	<u>1350</u>	<u>169</u>	<u>8.8</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>7.7 °C</u>	<u>38 °C</u>	<u>31.1 °C</u>	<u>34.5 °C</u>	<u>26.8 °C</u>	<u>37.7 °C</u>	<u>30.0 °C</u>	<u>36.1 °C</u>	<u>28.4 °C</u>	<u>37.2 °C</u>	<u>29.5 °C</u>

*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>162</u>	<u>8.9</u>	<u>222</u>	<u>1350</u>
No Load - - -	<u>283</u>	<u>162</u>	<u>8.9</u>	<u>220</u>	<u>—</u>

Insulation Tests (taken after the temperature test):—

Insulation resistance two megohms.

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

Particulars of other tests applied:— 10 percent overload for 1/4 hour.

Marks on forgings or castings (if any) _____

Dates of inspection and tests 25-1-35.

Fee £ 2 : 2 / -

Expenses £ — : — : — 18 MAR 1935



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