

THE SUNDERLAND FORGE & ENGINEERING COMPANY, LIMITED.



TEST OF DIRECT CURRENT GENERATOR, Size 13"

and ENGINE, Size 9 1/2" X 4 1/2"

ENG. N° 3937

MESSRS. R. & W. HAWTHORN LESLIE & CO. LTD.

Order 2365.

OUTPUT PLATE STAMPED } 110 Volts 146 Amps 16 K.W. 390 Revs.
Continuous Rating Compound Wound, No. F.5248 Date 1938.

Engine No. F.5247. Steam Pressure 80 lbs. per sq. inch.

READINGS DURING TEST. M.Y. "DAPHNELLA".

Speed R.P.M.	LINE		SHUNT		Stm. Pres. lbs./sq. in.	DATE OF TEST
	Volts	Amps.	Volts	Amps.		2-2-38. Remarks
<u>TEMPERATURE RUN.</u>						
0	390	110	146	84	4.27	80
	390	110	146	84	4.25	80
10	389	110	146	90	4.15	80
	390	110	146	93	4.2	80
20	389	110	146	93.5	4.2	80
30	389	110	146	94	4.22	80
40	389	110	146	95	4.2	80
50	389	110	146	95	4.22	80
60	389	110	146	95	4.22	80
Temps. taken "A".						
<u>25% OVERLOAD.</u>						
30	392	110	183	83	3.9	110
40	391	110	183	85	3.9	110
50	393	110	183	88	3.91	110
60	394	110	183	90	4.0	110
70	393	110	183	90	4.0	110
	389	110	146	89	4.1	80
	399	110	0	89	4.1	80
Temps. taken "B".						
Governing.						

W. T. B.

14/9/38.

LLOYD'S REGISTER OF SHIPBUILDERS
NEWCASTLE-ON-TYNE

W. HAWTHORN, LESLIE & CO
ENGINEERS & SHIPBUILDERS
ST. PETER'S WORKS
13 SEP. 1938
NEWCASTLE-ON-TYNE

STEAM DRIVEN GENERATOR

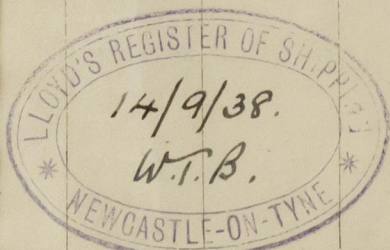
ENG. N^o 3937



Temps. taken "A".

Temps. taken "B".

Governing.



STEAM DRIVEN GENERATOR

ENG. N° 3937

Temperatures taken by thermometers	Armature		Commutator		Shunt Coils		Series Coils		Crank Chamber Oil.	
	A	B	A	B	A	B	A	B		
Minimum Temperature recorded	107	133	92	114	114	114	100	125	125	126
Temperature	64	63	64	63	64	63	64	63	64	63
Temperature Rise in Degrees F.	43	70	28	51	50	51	36	62	61	

	Before Temperature Run	After Temperature Run
High Pressure Test on Generator	2000 Volts for 1 min.	2000 Volts for 1 min.
Insulation Resistance of Generator	8 Megohms	100 Megohms

Date 9-3-38

Signed J.P.

002659-002666-0143

Lloyd's Register Foundation