

THE SUNDERLAND FORGE & ENGINEERING COMPANY, LIMITED.



TEST OF DIRECT CURRENT GENERATOR, Size 13"

and ENGINE, Size 9½" X 4½"

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

Order 2365.

ENG. N^o 3938

OUTPUT PLATE STAMPED { 110 Volts 146 Amps 16 K.W. 390 Revs.
Continuous Rating Compound Wound, No. F.5252 Date 1938
Engine No. F.5251. Steam Pressure 80 lbs. per sq. inch.

READINGS DURING TEST.

M. V. Dnyosa.

Speed R.P.M.	LINE		SHUNT		Stm. Pres. lbs./sq. in.	DATE OF TEST 23-2-38.
	Volts	Amps.	Volts	Amps.		Remarks
	<u>TEMPERATURE RUN.</u>					
390	110	146	89	4.3	80	Temperatures taken(a)
390	110	146	90	4.15	80	
390	110	146	94	4.3	80	
390	110	146	95	4.15	80	
391	110	146	96	4.17	80	
392	110	146	96	4.17	80	
393	110	146	97	4.2	80	
393	110	146	98	4.2	80	
393	110	146	98	4.25	80	
	<u>25% OVERLOAD.</u>					
389	110	182	89	4.3	100	Temperatures taken(b)
391	110	183	93	4.35	100	
392	110	183	93	4.15	100	
392	110	183	95	4.3	100	
392	110	183	96	4.25	100	
	<u>GOVERNING.</u>					
403	110	0	93	4.05	95	
392	110	146	93	4.15	80	

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

STEAM DRIVEN GENERATOR
ENG. N^o 3938



STEAM DRIVEN GENERATOR

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Temperatures taken by thermometers	Armature		Commutator		Shunt Coils		Series Coils		Interpole Coils	
	A	B	A	B	A	B	A	B	A	B
Maximum Temperature recorded	108	117	93	106	116	113	105	110	134	130
Temperature	63	63	63	63	63	63	63	63	63	63
Temperature Rise in Degrees F.	45	54	30	43	53	50	42	47	71	67
High Pressure Test on Generator	Before Temperature Run					After Temperature Run				
	2000 Volts for 1 min.					2000 Volts for 1 min.				
Insulation Resistance of Generator	50 Megohms					100 Megohms				

Date 9-3-38

Signed

M.D.

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Lloyd's Register
Foundation