

# THE SUNDERLAND FORGE & ENGINEERING COMPANY, LIMITED.



TEST OF DIRECT CURRENT GENERATOR, Size 13"

and ENGINE, Size

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

Order 2365.

110 Volts 146 Amps 16 K.W. 390 Revs.  
Continuous Rating Compound Wound, No. F.5254 Dated 1938

Steam Pressure lbs. per sq. inch.

READINGS DURING TEST. *M. V. "Doryssa"*

Speed R.P.M.	LINE		SHUNT		Stm. Pres. lbs./sq. in.	DATE OF TEST 7/2/38. Remarks
	Volts	Amps.	Volts	Amps.		
	<u>TEMPERATURE RUN.</u>					
392	110	146	87	4.42		
390	110	146	93	4.45		
390	110	146	93	4.45		
390	110	146	95	4.45		
390	110	146	96	4.36		
390	110	146	96	4.36		
390	110	146	96	4.3		
390	110	146	96	4.3		
390	110	146	98	4.3		
	<u>25% OVERLOAD.</u>					
392	110	182.5	92	4.4		
393	110	182.5	95.	4.45		
393	110	182.5	96	4.5		
390	110	182.5	98	4.48		
391	110	182.5	100	4.4		
391	110	146	89	4.25		Temp. taken "A".
405	110	0	89	4.25		Temp. taken "B".
						Full Load. No Load.
<u>TEST ON SPARE ARMATURE F.5249 RUNNING AS MOTOR.</u>						
390	110	198	30	1.5		
390	110	198	30	1.45		
TEMPERATURE RISE OF ARMATURE = 70°F.					<u>DIESEL DRIVEN</u>	
TEMPERATURE RISE OF COMMUTATOR = 56°F.					<u>GENERATOR</u>	
					<u>ENC. N°3938</u>	

atures taken by thermometers	Armature		Commutator		Shunt Coils		Series Coils		Interpole Coils	
	A	B	A	B	A	B	A	B	A	B
um Temperature recorded	101	120	106	112	95	96	92	126		
perature	64	61	64	61	64	61	64	61		
ature Rise in Degrees F.	37	59	42	51	31	35	28	65		
Before Temperature Run					After Temperature Run					
ressure Test on Generator	2000	Volts for	1	min.	2000	Volts for	1	min.		
on Resistance of Generator		25		Megohms		100		Megohms		

te 9-3-38

Signed

*M.D.* 002659-002666-0148

