

THE SUNDERLAND FORGE & ENGINEERING COMPANY, LIMITED.



TEST OF DIRECT CURRENT GENERATOR, SIZE 12"
and ENGINE, Size 8" x 4"

Customer's Order No. 60846

Ship No. 738

For MESSRS. INST. DEPT. FOR SIR JAMES LAING & SONS LTD.

OUTPUT PLATE) 110 Volts 227 Amps 25 K.W. 685 Revs.
STAMPED } Continuous Rating Compound Wound, No. F.9050 Date 1941
Engine No. F.9049 Steam Pressure 100 lbs. / sq. in. Exhaust.

Time	Speed R.P.M.	LINE		SHUNT		Stm. Pres. lbs./sq. in.	Oil Pres. lbs./sq. in.	Remarks
		Volts	Amps.	Volts	Amps.			
<u>TEMPERATURE RUN.</u>								
7-30	685	110	228	80	4.56	100		
8-0	685	110	228	80	4.50	100		
8-30	685	110	227	80.5	4.48	100		
9-0	686	110	227	81	4.46	100		
9-30	685	110	227	82	4.40	100		
10-0	685	110	227	82.5	4.38	100		
10-30	686	110	227	83	4.38	100		
11-0	685	110	227	84	4.37	100		
11-30	685	110	227	84.5	4.37	100		Temps. taken A.
<u>25% OVERLOAD.</u>								
12-0	685	110	284	82	4.58	122		
12-30	685	110	284	83	4.44	122		
1-0	685	110	284	84.5	4.38	122		
1-30	685	110	284	85	4.36	122		
2-0	685	110	284	85	4.36	122		Temps. taken B.
	718	110	0	87.5	4.56	108		
	685	110	227	88	4.58	100		

Temperature Rise in degrees Fahrenheit at Air Temperature A:— 77 B:— 80

	A	B		A	B		A	B
Armature	45	74	Commutator	26	52	Shunts	27	33
Series	26	50	Interpoles	18	25	Crankcase Oil	69	60

High Pressure Test 2000 Volts for one minute. Insulation Resistance 100 Megohms.

Date of Test 3-9-41

Signed

[Signature]

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Lloyd's Register
Foundation