

S.S. "SILVERLAUREL" - PORT STEAM SET

THE SUNDERLAND FORGE & ENGINEERING
COMPANY, LIMITED.

TEST OF DIRECT CURRENT GENERATOR, SIZE 12".

and ENGINE, Size 10"X13½"X4½".

For MESSRS. I.D.FOR J.L. THOMPSON & SON'S LTD.

Order 25212.

 OUTPUT PLATE } 110 Volts 227 Amps 25 K.W. 640 Revs.
 STAMPED } Continuous Rating Compound Wound, No. F.5832 Date 1938


Engine No. F.5831.

Steam Pressure 125

lbs. per sq. inch.

NO. 588 SHIP.

READINGS DURING TEST.

Time	Speed R.P.M.	LINE		SHUNT		Stm Pres. lbs./sq. in.	DATE OF TEST 14.10.38
		Volts	Amps.	Volts	Amps.		Remarks
<u>TEMPERATURE RUN.</u>							
8-30	638	110	227	80	3.65	130	 Temps. taken "A".
9-0	640	110	227	82½	3.66	130	
9-30	640	110	228	83	3.65	130	
10-0	640	110	228	85	3.65	130	
10-30	640	110	228	85	3.64	130	
11-0	640	110	228	85	3.64	130	
11-30	641	110	227	85½	3.63	130	
12-0	641	110	227	85½	3.63	130	
12-30	641	110	227	85½	3.63	130	
<u>25% OVERLOAD.</u>							
12-45	640	110	285	83½	3.59	155	Temps. taken "B".
1-15	640	110	284	87	3.65	152	
1-45	639	110	285	87	3.62	151	
2-15	640	110	285	87	3.62	152	
2-45	640	110	285	87	3.62	153	
	675	110	0	79	3.85	130	
	635	110	230	79½	3.80	125	No Load. Full Load.

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 ...	133	143	116	135	119	132	128	144	133	155
Air Temperature ...	70	74	70	74	70	74	70	74	70	74
Temperature Rise in °F	63	69	46	61	49	58	58	70	63	81

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 ...

15 Megohms

100 Megohms

Date

6/3/39

Signed

M.D.

W261-0221

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Lloyd's Register
Foundation