

S.S. "SILVERLAUREL" - PORT STEAM SET
 THE SUNDERLAND FORGE & ENGINEERING
 COMPANY, LIMITED.



TEST OF DIRECT CURRENT GENERATOR, SIZE 12".

and ENGINE, Size 10" X 13 1/2" X 4 1/2".

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

Order 25212.

OUTPUT PLATE STAMPED } 110 Volts 227 Amps 25 K.W. 640 Revs.
 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	82 1/2	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	85 1/2	3.63	130		
12-0	641	110	227	85 1/2	3.63	130		
12-30	641	110	227	85 1/2	3.63	130		
<u>25% OVERLOAD.</u>								
12-45	640	110	285	83 1/2	3.59	155		Temps. taken "B". No Load. Full Load.
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	79 1/2	3.80	125		

W261-0221

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 *MS.*

