

S.S. "SILVERLAUREL" - PORT DIESEL SET

THE SUNDERLAND FORGE & ENGINEERING
COMPANY, LIMITED.



TEST OF DIRECT CURRENT GENERATOR, SIZE 23"X7".

and ENGINE, Size


For MESSRS. I.D.FOR JOSEPH L. THOMPSON & SON'S LTD. Order 37917.

OUTPUT PLATE STAMPED } 220 Volts 273 Amps 60 K.W. 500 Revs.
Continuous Rating Compound Wound, No.F.6629 Date 1939

Engine No. Steam Pressure lbs. per sq. inch.

NO. 588 SHIP.

READINGS DURING TEST. m.v. "SILVERLAUREL".

Time	Speed R.P.M.	LINE		SHUNT		Stm Pres. lbs./sq. in.	DATE OF TEST 5-1-39.
		Volts	Amps.	Volts	Amps.		Remarks
<u>TEMPERATURE RUN.</u>							
5-15.	501	220	273	141	3.50		Temps. taken "A".
5-45	501	220	274	147	3.48		
6-15	502	220	273	148	3.44		
6-45	502	220	273	149	3.38		
7-15	502	220	273	151	3.42		
7-45	502	220	273	153	3.45		
8-15	501	220	273	154	3.42		
8-45	501	220	273	154	3.42		
9-15	500	220	273	155	3.46		
9-45	499	220	273	157	3.50		
10-15	499	220	273	158	3.51		
10-45	499	220	273	158	3.51		
11-15	499	220	273	158	3.51		
<u>25% OVERLOAD.</u>							
11-30	502	220	341	157	3.60	Temps. taken "B".	
12-0	498	220	341	161	3.56		
12-30	500	220	341	161	3.52		
1-0	500	220	341	161	3.51		
1-30	500	220	341	161	3.51		
	499	231	273	170	3.92	5% above normal voltage.	
	500	200	273	118	2.78	10% below normal voltage.	
	518	220	0	155	3.62	No Load.	
	500	220	273	154	3.60	Full Load.	



U261-0220

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 ...	103	112	93	97	100	104	103	117	93	105
Air Temperature ...	63	63	63	63	63	63	63	63	63	63
Temperature Rise in °F	40	49	30	34	37	41	40	54	30	42

	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 ...	10		Megohms	20		Megohms

Date 6/3/39

Signed *W.D.*

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