



"SILVERLAUREL" STARBOARD DIESEL SET.
THE SUNDERLAND FORGE & ENGINEERING
COMPANY, LIMITED.
SUNDERLAND. N^o 32593


TEST OF DIRECT CURRENT GENERATOR, SIZE 23"x7".
and ENGINE, Size

For MESSRS. I.D.FOR JOSEPH L. THOMPSON & SONS LTD. Order 37917.

OUTPUT PLATE } 220 Volts 273 Amps 60 K.W. 500 Revs.
STAMPED } Continuous Rating Compound Wound, No. F. 6628 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 AS MOTOR DRIVING GENERATOR NO. F. 6629.</u>							
5-15	501	220	335	108	2.68		Temps. taken "A".
5-45	501	220	342	110	2.64		
6-15	502	220	345	110	2.62		
6-45	502	220	347	110	2.60		
7-15	502	220	345	112	2.62		
7-45	502	220	345	112	2.62		
8-15	501	220	343	112	2.60		
8-45	501	220	343	112	2.60		
9-15	500	220	338	114	2.65		
9-45	499	220	340	115	2.68		
10-15	499	220	339	115	2.69		
10-45	499	220	339	115	2.69	Temps. taken "B".	
11-15	499	220	339	115	2.69		
<u>25% OVERLOAD.</u>							
11-30	502	220	438	102	2.38	Temps. taken "B".	
12-0	498	220	435	100	2.31		
12-30	500	220	435	99	2.27		
1-0	500	220	435	98	2.25		
1-30	500	220	435	98	2.25		
<u>READINGS TAKEN AS GENERATOR.</u>							
	500	230	273	172	3.90	5% above normal voltage.	No Load.
	498	200	273	123	2.82	10% below normal voltage.	
	520	220	0	154	3.53	Full Load.	
	499	220	273	154	3.52		

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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 ...	112	127	98	105	85	83	90	128	104	129
Air Temperature ...	63	63	63	63	63	63	63	63	63	63
Temperature Rise in °F	49	64	35	42	22	20	52	65	41	66

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	...	80 Megohms	100 Megohms		

Date 6/3/39

Signed JMD.

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