




THE SUNDERLAND FORGE & ENGINEERING COMPANY, LIMITED.

TEST OF DIRECT CURRENT GENERATOR, SIZE 11".

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

OUTPUT PLATE STAMPED } 110 Volts 273 Amps 30 K.W. 1300 Revs.  
Continuous Rating Compound Wound, No. F.6632 Date 1939

Engine No. \_\_\_\_\_  
Duty: Generator for M.G. Set. \_\_\_\_\_  
No. 588 Ship. \_\_\_\_\_  
Steam Pressure \_\_\_\_\_ lbs. per sq. inch.  
READINGS DURING TEST. m.v. "Silverlaurel"

Duty: Generator		READINGS DURING TEST				DATE OF TEST 7-1-39.			
No. 588 Ship.		LINE		SHUNT		Stm Pres.	Remarks		
Time	Speed R.P.M.	Volts	Amps.	Volts	Amps.	lbs./sq. in.			
<u>TEMPERATURE RUN.</u>									
11-30	1275	110	273	97	3.85		Temps. taken "A".		
12-0	1290	110	273	95	3.60				
12-30	1297	110	273	95	3.50				
1-0	1302	110	273	93	3.40				
1-30	1307	110	273	92	3.38				
2-0	1310	110	273	91	3.35				
2-30	1312	110	273	91	3.32				
3-0	1315	110	273	91	3.30				
3-30	1315	110	273	91	3.30				
<u>25% OVERLOAD.</u>									
4-0	1312	110	341	97	3.54	Temps. taken "B".	No Load. Full Load.		
4-30	1316	110	341	96	3.46				
5-0	1318	110	341	97	3.45				
5-30	1320	110	341	97	3.44				
6-0	1318	110	341	97	3.43				
	1312	110	0	95	3.50				
	1300	110	273	95	3.49				



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 ...	123	130	97	103	96	102			87	99
Air Temperature ...	66	66	66	66	66	66			66	66
Temperature Rise in °F	57	64	31	37	30	36			21	33

	Before Temperature Run			After Temperature Run		
	2000	Volts for	1 min.	2000	Volts for	1 min.
High Pressure Test on Generator ...	...	70	Megohms	...	100	Megohms
Insulation Resistance of Generator ...	...			...		

Date

6/3/39

Signed

MS.

1261-0223