

S.S. "STUART PRINCE" - MAIN GENERATOR

Mdb report No 16917

THE SUNDERLAND FORGE & ENGINEERING COMPANY, LIMITED.



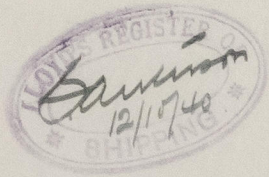
TEST OF DIRECT CURRENT GENERATOR, SIZE 10"
and ENGINE, Size 6" x 3"

Customer's Order No. 73

Ship No. 1069

For MESSRS. Smith's Dock Co. Ltd.

OUTPUT PLATE } 110 Volts 109 Amps 12 K.W. 850 Revs.
STAMPED } Continuous Rating Compound Wound, No.F.7185 Date 1940
Engine No. F.7184 Steam Pressure 100 lbs. / sq. in. Exhaust.

Time	Speed R.P.M.	LINE		SHUNT		Stm. Pres. lbs./sq. in.	DATE OF TEST 6.2.40
		Volts	Amps.	Volts	Amps.		Remarks
<u>TEMPERATURE RUN.</u>							
0.0	835	110	109	87	3.5	100	Temperatures taken 'A'
0.30	835	110	109	86	3.4	100	
1.0	835	110	109	86	3.35	100	
1.30	835	110	109	85.5	3.25	100	
2.0	835	110	109	85	3.25	100	
2.30	835	110	109	86	3.25	100	
3.0	835	110	109	85	3.25	100	
3.30	835	110	109	85	3.2	100	
4.0	835	110	109	85	3.2	100	
2.0	835	110	109	85	3.2	100	
<u>25% OVERLOAD.</u>							
2.30	830	110	136	89	3.42	110	Temperatures taken 'B'.
3.0	830	110	136	90	3.42	110	
3.30	832	110	136	90	3.41	110	
4.0	830	110	136	90	3.40	110	
4.30	830	110	136	90	3.40	110	
	850	110	109	88.5	3.4	101	Full Load.
	900	110.5	0	88.5	3.4	105	No Load.
							



Temperatures taken thermometers ...	Armature		Commutator		Shunt Coils		Series Coils		Interpole Coils	
	A	B	A	B	A	B	A	B	A	B
min Temperature Recorded ...	108	122	105	119	96	109	101	103	88	102
Temperature ...	74	72	74	72	74	72	74	72	74	72
Temperature Rise in °F	34	50	31	47	22	37	27	31	14	30

Before Temperature Run			After Temperature Run		
Pressure Test on Generator...	2000	Volts for one min.	2000	Volts for one min.	
Insulation Resistance of Generator	100	Megohms	100	Megohms	
Date 11/10/40	Signed <i>JMD</i>		Lloyd's Register Foundation		

004949-004953-0232