

THE SUNDERLAND FORGE & ENGINEERING COMPANY, LIMITED.



TEST OF DIRECT CURRENT GENERATOR, Size 10" x 7"

and ENGINE, Size 6" x 4"

For MESSRS. I.D. FOR SHORT BROS. NO. 446 SHIP.

Order 14484

OUTPUT PLATE STAMPED } 110 Volts 45.5 Amps 5 K.W. 410 Revs.
Continuous Rating Compound Wound, No.F.4153 Date 1936

Engine No. F.1437

Steam Pressure

100 lbs. per sq. inch.

READINGS DURING TEST.

Time	Speed R.P.M.	LINE		SHUNT		Stm. Pres. lbs./sq. in.	DATE OF TEST
		Volts	Amps.	Volts	Amps.		Remarks
<u>TEMPERATURE RUN 27-6-36.</u>							
10-30	429	110	45½	86	2.36	100	Temperatures taken.
11-0	396	110	45½	108	3.0	105	
11-30	403	110	45½	108	2.75	100	
12-0	404	110	45½	108	2.72	100	
12-30	405	110	45½	108	2.70	100	
1-0	405	110	45½	108	2.69	100	
1-30	405	110	45½	108	2.68	100	
2-0	407	110	45½	108	2.65	100	
2-30	407	110	45½	108	2.65	100	
<u>GOVERNING TEST.</u>							
	415	113	0	112½	3.05	100	
	402	111	45	110	2.94	100	

Temperatures taken by thermometers	Armature	Commutator	Shunt Coils	Series Coils	Interpole Coils
Maximum Temperature recorded ...	134	112	115	107	-
Air Temperature ...	78	78	78	78	-
Temperature Rise in Degrees F. ...	56	34	37	29	-
		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	30 Megohms			

Date 29/7/36

Signed JMD.

002109-002118-0235