

# THE SUNDERLAND FORGE AND ENGINEERING COMPANY, LIMITED



TEST OF DIRECT CURRENT GENERATOR, SIZE 10"  
and ENGINE, Size 5" x 4"

Customer's Order No. 3640/1.

Ship No. 1135.

For MESSRS. SMITHS DOCK CO. LTD.

OUTPUT PLATE STAMPED } 110 Volts 45.5 Amps 5 K.W. 420 Revs.  
Engine No. G.4484. Continuous Rating Compound Wound, No. G.4485. Date 1945.  
Steam Pressure 120 lbs./sq. in. Exhaust.

Time	Speed R.P.M.	LINE		SHUNT		Stm. Pres. lbs./sq. in.	Remarks
		Volts.	Amps.	Volts	Amps.		
<u>TEMPERATURE RUN.</u>							
10.0	418	110	45.5	89	2.50	100	Temperatures taken A.
10.30	419	110	45.5	90	2.50	100	
11.0	420	110	45.5	90	2.45	100	
11.30	419	110	45.5	94	2.46	100	
12.0	420	110	45.5	94	2.45	100	
12.30	421	110	45.5	94	2.45	100	
1.0	421	110	45.5	95	2.46	100	
1.30	421	110	45.5	95	2.45	100	
2.0	421	110	45.5	95	2.45	100	
<u>GOVERNING.</u>							
	422	110	46	93	2.45	120	Full load. No load.
	441	110	0	93	2.45	125	
<u>25% OVERLOAD.</u>							
	420	110	57	93	2.48	125	
<u>N.L. REGULATOR ALL IN CIRCUIT.</u>							
	442	79	0	57	1.5	125	

Temperature Rise in degrees Fahrenheit at Air Temperature A:— 71 B:—

	A	B		A	B		A	B
Armature	46		Commutator	32		Shunts	43	
Series	42		Interpoles			Crankcase Oil		

High Pressure Test 2000

Volts for 1 minute.

Insulation Resistance 25

Megohms

Date of Test 31.5.45.

Signed

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Lloyd's Register  
Foundation