

M/c. No. ....

8669

CLARKE, CHAPMAN & Co., Ltd.,

ELECTRICAL ENGINEERS,

Victoria Works, :: :: Gateshead-on-Tyne.

B1/243

TEST RECORD OF D.C. GENERATOR.

Customer **Wm. Gray & Co** S/S **1056.** C/o. S/o. Test O/No.  
Size **11 $\frac{1}{2}$ x7** Type **open** Volts. **110** Amps. **91** K.W. **10** R.P.M.F.L. **400** N.L. **420**  
Protection **D.P. Canopies.** Winding **compound** Temp. Rise. **72**  
**72** °F. after. **6 hours.** F.L.  
Resistance of Shunt Winding **30.4** Ohms. cold. Compounding **Level.**  
No. of Brush Spindles **4** Brushes per Spindle **2** Size **1" x  $\frac{1}{2}$ "** Grade **E.G.O.**  
Commutator **8 $\frac{1}{4}$ " diams.** Shunt Amp. no load **2.83** Shunt Regulator **F.F. 86**  
Inspection Date of Official Tests

Dynamo coupled to Engine No. **3675** Type **Open single.**  
Cylinder **7** " x **5** " stroke. Steam Pressure at S.V. **100** lbs. square in.  
Steam Pressure at Ex. Valve lbs. square in. Oil Pressure lbs. square in.  
Temp. of Oil at start °F. At end of test °F.

REMARKS AND TESTS REQUIRED:—

Engine rebuilt for superheated steam.

Take Governing Trials.

and see our Dynamo is O.K.



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Time.	Volts.	Amp.	Revs.	Shunt Amp.	Steam Press.	Reg.	Load.	Volts.	Amp.	Revs.	Shunt Amp.	Reg.
30	110	91	400	2.75	100		0	110	8	415	2.95	
0	110	91	400	2.9	"		$\frac{1}{4}$	111 $\frac{1}{2}$	24	405		
30	110	91	400	2.95	"		$\frac{1}{2}$	112 $\frac{1}{2}$	47	405		
	110	91	400	2.95	"		$\frac{3}{4}$	112	66	402		
0	110	91	400	2.95	"		1	111 $\frac{1}{2}$	92	400	3.05	
	110	91	400	2.95	"		$\frac{3}{4}$	114	68	402		
0	110	91	400	2.95	"		$\frac{1}{2}$	114 $\frac{1}{2}$	46	405		
	110	91	400	2.95	"		$\frac{1}{4}$	113	25	408		
0	110	91	400	2.95	"		0	110	8	415	2.95	
	110	91	400	2.95	"			18" Vacuum				

O	Steady	Revs. <del>415</del> 415	Volts.	110
Full	Momentary	„ 395	„	98
„	Steady	„ 400	„	111½
O	Momentary	„ 435	„	127
O	Steady	„ 415	„	110

[illegible]

	No Load.	Full Load.
Reg. all in ... ..	60	105
Reg. all out ... ..	117	114 $\frac{1}{2}$

end                  = °F.

		Arm Core.	Arm Front.	Arm Back.	Shunt.	Series.	Comm.	Interpoles.
Temperature	°F.	103	111	116	97	100	99	103
		58	58	58	58	58	58	58
Rise in Temp.	°F.	45	53	58	39	42	41	45

Insul. 2 Meghoms.

W.I.B.

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## TEMPERATURE AND PERFORMANCE RUN. COMPOUNDING AND GOVERNING TESTS.

Time.	Volts.	Amp.	Revs.	Shunt Amp.	Steam Press.	Reg.	Load.	Volts.	Amp.	Revs.	Shunt 2	Reg.	
							0						
							$\frac{1}{4}$						
							$\frac{1}{2}$						
							$\frac{3}{4}$						
							1						
							$\frac{3}{4}$						
							$\frac{1}{2}$						
							$\frac{1}{4}$						
							0						
							O	Steady	Revs.	Volts.			
							Full	Momentary	„	„			
							„	Steady	„	„			
							O	Momentary	„	„			
							O	Steady	„	„			
Parallel Running.											No Load.	Full Load.	
M/c. No.	Volts.	Amp.	Revs.	M/c. No.	Volts.	Amp.	Revs.						
								Reg. all in ... ..					
								Reg. all out ... ..					
							Temperature of air at start of 6 hr. Run				=	°F.	
							„ „ „ end „ „				=	°F.	
Temperature			°F.	Arm Core.	Arm Front.	Arm Back.	Shunt.	Series.	Comm.	Interpoles.			
Rise in Temp.			°F.										

REMARKS:—