

M/c. No.

9223

CLARKE, CHAPMAN & Co., Ltd.,

ELECTRICAL ENGINEERS,

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

B1/243

S. S. "THORNABY" No. 596 SHIP.

TEST RECORD OF D.C. GENERATOR.

Customer **Messrs. R. & W. Hawthorn Leslie & Co. Ltd.** C/o. **5577M** S/o. **5580M** Test O/No. **5582M**
Size **8½x7** Type **Open** Volts. **110** Amps. **45.5** K.W. **5** R.P.M.F.L. **450** N.L. **470**
Protection **Drip-Proof.** Winding **Compound.** Temp. Rise. **72 °F. after 6 hours.** F.L.
Resistance of Shunt Winding **25.7** Ohms. cold. Compounding **Level**
No. of Brush Spindles **4** Brushes per Spindle **1** Size **1" x ½"** Grade **E.G.12.**
Cummutator Shunt Amp. no load **3.08** Shunt Regulator **Whipp & Bourne, Back-of-Board type.**
Inspection Date of Official Tests **25 ohms. 4/2 amps.**

Dynamo coupled to Engine No. **3769** Type
Cylinder **5** " x **4** " 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 :—



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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 Amp.	Reg.
9-30	110	45	450	2.25	100	$\frac{7}{8}$ in	0	110	0	476	2.3	11/16 in
10-0	"	"	"	"	"	"	$\frac{1}{4}$	111	10	465	"	"
10-30	"	"	"	"	"	$\frac{13}{16}$ "	$\frac{1}{2}$	114	21	460	"	"
11-0	"	"	"	"	"	"	$\frac{3}{4}$	115	32	450	"	"
11-30	"	"	"	2.75	"	$\frac{3}{4}$ "	1	112	45	454	2.4	"
12-0	"	"	"	2.3	"	"	$\frac{3}{4}$	115	32	454	"	"
12-30	"	"	"	2.25	"	"	$\frac{1}{2}$	115	22	460	"	"
1-0	"	"	"	"	"	"	$\frac{1}{4}$	112	11	466	"	"
1-30	"	"	"	2.3	"	$\frac{11}{16}$ "	0	110	0	474	2.3	"
2-0	"	"	"	"	"	"	These readings taken on 23" Vac.					
2-30	"	"	"	"	"	"	O	Steady	Revs.	Volts.		
3-0	"	"	"	2.27	"	"	Full	Momentary	"	"		
3-30	"	"	"	2.28	"	"	"	Steady	"	"		
Engine running on 23" Vac.							O	Momentary	"	"		
							O	Steady	"	"		

Parallel Running.

[illegible]

	No Load.	Full Load.
Reg. all in	77	106
Reg. all out	145	118

Temperature of air at start of 6 hr. Run = °F.
 " " " end " " = 60 °F.

		Arm Core.	Arm Front.	Arm Back.	Shunt.	Series.	Comm.	Interpoles.
Temperature	°F.	132	130	134	94	106	122	98
Rise in Temp.	°F.	72	70	72	34	46	62	38
REMARKS:								

REMARKS :—

Resistance of Shunt Winding Cold = 26 ohms.

Hot = 29.6 ohms.

Commutation satisfactory.

2000 Volts 1 min. Insul. 100 megohms.

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TEMPERATURE AND PERFORMANCE RUN. COMPOUNDING AND GOVERNING TESTS.

These readings taken with
Engine exhausting to atmosphere

O	Steady	Revs.	Volts.
Full	Momentary	„	„
„	Steady	„	„
O	Momentary	„	„
O	Steady	„	„

Parallel Running.

[illegible]

			No Load.	Full Load.
Reg. all in	70	106
Reg. all out	142	117

Temperature of air at start of 6 hr. Run = °F.

“ ” ” end “ ” = °F.

		Arm Core.	Arm Front.	Arm Back.	Shunt.	Series.	Comm.	Interpoles.
Temperature	°F.							
Rise in Temp.	°F.							

REMARKS :—

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