

M/c. No.

8834

CLARKE, CHAPMAN & Co., Ltd.,

ELECTRICAL ENGINEERS,

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

B1/243

TEST RECORD OF D.C. GENERATOR.

Customer **Messrs. Burntisland S.B. Co. Ltd.** C/o. **2844M** S/o. **2847M** Test O/No. **2849M.**
Ship No. **180.**
Size **7 x 6** Type **Open** Volts. **110** Amps. **22.5** K.W. **2½** R.P.M.F.L. **600** N.L. **630**
Protection **Canopies** Winding **Compound** Temp. Rise. **72°F.**
72°F. after. 6 hours F.L.
Resistance of Shunt Winding **59.7** Ohms. cold. Compounding **Level.**
No. of Brush Spindles **4** Brushes per Spindle **1** Size **1" x ½"** Grade **A.T.**
Commutator Shunt Amp. no load **1.35** Shunt Regulator **Whipp & Bourne I.B.**
Inspection **None.** Date of Official Tests **25 ohms 4"2 amps.**

Dynamo coupled to Engine No. **3749** Type **Enclosed Single Cylinder with Splash lubrication.**
Cylinder **4" x 3"** stroke. Steam Pressure at S.V. **100** lbs. square in.
Steam Pressure at Ex. Valve **Atmos.** lbs. square in. **0** Oil Pressure **0** lbs. square in.
Temp. of Oil at start °F. At end of test °F.

REMARKS AND TESTS REQUIRED:—

Heat Runs at F.L.

Compounding tests



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W401-0076

TEMPERATURE AND PERFORMANCE RUN. COMPOUNDING AND GOVERNING TESTS.

Time.	Volts.	Amp.	Revs.	Shunt Amp.	Steam Press.	Reg.	Load.	Volts.	Amp.	Revs.	Shunt 2	Reg.
1-0	110	23.5	635	1.35	100	$\frac{1}{2}$ in	0	110	0	635	1.45	1/3 in.
1-30	"	23.5	635	1.35	"	"	$\frac{1}{4}$	113.5	5.5	625	1.45	"
2-0	"	23.5	635	1.35	"	"	$\frac{1}{2}$	113	11	618	"	"
2-30	"	23	634	1.2	"	"	$\frac{3}{4}$	112	15	614	"	"
3-0	"	"	634	1.2	"	"	1	110.5	22.5	610	1.425	"
3-30	"	"	635	1.2	"	"	$\frac{3}{4}$	112	15	614	"	"
4-0	"	"	635	1.2	"	"	$\frac{1}{2}$	113.5	11.5	618	1.4	"
4-30	"	"	635	1.2	"	"	$\frac{1}{4}$	114	5.5	625	1.5	"
5-0	"	"	630	1.2	"	"	0	110	0	635	1.4	"

O	Steady	Revs.	635	Volts.	111
Full	Momentary	"	595	"	95
"	Steady	"	610	"	110
O	Momentary	"	690	"	135
O	Steady	"	635	"	111

Parallel Running.

			No Load.	Full Load.
				(at F.L. Current).
Reg. all in	65	98
Reg. all out	121	115

Temperature of air at start of 6 hr. Run = °F.
 " " " end " " = 64 °F.

		Arm Core.	Arm Front.	Arm Back.	Shunt.	Series.	Comm.	Interpoles.
Temperature	°F.	126	118	124	104	96	116	
Rise in Temp.	°F.	62	54	60	40	32	52	

REMARKS:—

Resistance of Shunt Windings cold = 56.8 ohms. Hot 72.8 ohms.

2,000 Volts 2 mins. Insul. 100 megohms.