

CLARKE, CHAPMAN & CO., LTD.,
ENGINEERS,
VICTORIA WORKS, GATESHEAD, Co. Durham.

TEST RECORD OF CAPSTAN.

FOR MESSRS. HENRY ROBB LTD. SHIP No. 335

COMML. O/NO- 8565R STOCK O/NO. 8566R TESTING O/NO. 8568R

85/480

DUTY

TONS	FROM	F.P.M.	H.P.	R.P.M.	AMPS.
5	BARREL	50	25	600	96.5
2½	"	100	25	1200	96.5
SLACK	"	135	-	1620	20 (APPROX).

MOTOR PARTICULARS

M.C. NO. 16623 SIZE 11½ x 7 H.P. 25 R.P.M. 600/1620
VOLTS 220 AMPS. 96.5 PHASES - CYCLES -
ROTOR VOLTS - ROTOR AMPS. - RATING 1 HOUR 81°F
ENCLOSURE T.E. WINDING COMPOUND YEAR 1943
AIRGAP 3/32" SHUNT FIELD RESISTANCE (Cold) 450 OHMS (TOTAL).
NO. BRUSH ARMS 4 BRUSHES PER ARM 2 - 7/8" x 1/2" QUALITY H.M.6
SIZE OF MAG. BRAKE 12½" F.M.D. BRAKE SHUNT RESISTANCE (Cold) 740 OHMS.
RESISTANCE OF SERIES FIELD COILS (COLD) = .0358 OHMS (TOTAL).
" " INTERPOLE " " " = .031 OHMS (TOTAL).

TESTS REQUIRED

1 HOUR FULL LOAD TEMPERATURE RUN AT 600 R.P.M.

USUAL STEPPING TESTS.

SLIPPING CLUTCH SETTING 150% F.L. TORQUE (APPROX. 145 AMPS).

OVERLOAD RELAY SETTING 145 AMPS.

TORQUE LIMIT RELAY TO OPEN AT 140 AMPS AND RECLOSE AT 58 AMPS.

LLOYDS CERTIFICATE REQUIRED.



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Continuation Test Sheet for Motor No.16623

Inspectors present at Test **MR. VENNING - A.R.E.E.**
MR. WHITE - (LLOYDS).

Date 25/6/44

J.W.M. 252844

Time	Weight	Lift or Lower	Step on Controller	Volts	Amps	Revs. Arm.	Revs. Barrel or Warp Ends	Distance Timed	Time in Seconds	F.P.M.	Effy.	Remarks
	5-TON	LIFT	1	220	85							LOAD DISCRIMINATOR SET TO
			2	220	83							OPEN AT 130 AMPS AND
			3	220	120							CLOSE AT 64 AMPS.
			4	220	98			10FT	21.8	27.5	C.C.W.	
			5	220	96			10FT	14.4	41.6	C.C.W.	
			6	220	96			10FT	12	50	C.C.W.	
	5-TON	LIFT	6	220	96			10FT	12	50	C.W.	
												SLIPPING CLUTCH SET TO
	2½-TON	LIFT	1	220	80							REFUSE 7½ TONS AT 148 AMPS
			2	220	56				32.5	18.5		
			3	220	56				17.5	34.3		
			4	220	56				13	46.3		
			5	220	56				11	54.7		
			6	220	98				6	100		
	2½-TON	LIFT	7	220	98				6	100	C.C.W.	
LIGHT RUN			FULL	220	23					128	C.W.	
			FULL	220	23					128	C.C.W.	

			Arm. Core	Arm. Winding	Commu-tator	Shunt	Series	Inter		
Air Temp.	°F									
Temp. Rise	°F									

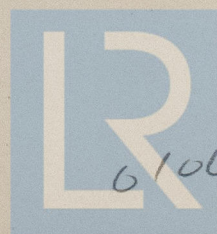
Tested	A. CRUDDACE.
Passed	G. BROWN.
Date	25/6/44

INSULATION TEST.

Volts A.C. applied to Whole

Equipment for.....minutes.

Insulation Resistance.....Megohm.



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CLARKE, CHAPMAN & CO. LTD.

Continuation Test Sheet for Motor No.16623

Inspectors present at Test

Date 23/5/44

J.W.M. 252844

Time	Weight	Lift or Lower	Step on Con-troller	Volts	Amps	Revs. Arm.	Revs. Barrel or Warp Ends	Distance Timed	Time in Seconds	F.P.M.	Effy.	Remarks
BRUSH SETTING			FULL	220	96.5	620	SHUNT AMPS .385	C.W.				
			FULL	220	96.5	620	.385	C.C.W.				
LOAD CURVE			25%	220	20	1070	.38	C.C.W.				ONE HOUR TEMP. TEST BRAKE
			50%	220	48	790	.38	C.C.W.				COIL:-
			75%	220	71	690	.38	C.C.W.				COLD BRAKE SHUNT = 736 OHM
			100%	220	96.5	620	.38	C.C.W.				HOT " " = 843 "
			125%	220	120	570	.375	C.C.W.				TEMP. COIL = 87°F
			150%	220	145	530	.375	C.C.W.				TEMP. AIR = 65°F
												TEMP. RISE = 22°F
NOTE:- TEMPERATURES WERE NOT TAKEN ON THIS MACHINE, BUT THOSE OBTAINED ON MACHINE NO. 16624 (SHIP NO. 336) ARE SHOWN BELOW.												

	Arm. Core	Arm. Winding	Commu-tator	Shunt	Series	Inter
Air Temp. °F	128	128	122	110	127	124
Temp. Rise °F	64	64	64	64	64	64
	64	64	58	46	63	70

Tested	R. LUMLEY.
Passed	G. BROWN.
Date	23/5/44.

INSULATION TEST.

2000 Volts A.C. applied to Whole

Equipment for 2 minutes.

Insulation Resistance 30 Megohm.



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