

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



TEST RECORD OF WINDLASS.

FOR MESSRS. HENRY ROBB LIMITED.

SHIP No. 335

COMML. O/NO- 8560R STOCK O/NO. 8562R TESTING O/NO. 8564R

85/480

DUTY

TONS	FROM	F.P.M.	H.P.	R.P.M.	AMPS.
8	CABLE LIFTERS	30	23	400	93
4	WARP ENDS.	60	23	400	93
SLACK	" "	120	-	800	20 (APPROX).

MOTOR PARTICULARS

M.C. NO. 16621 SIZE 11 $\frac{1}{2}$ x 8 $\frac{1}{2}$ H.P. 23 R.P.M. 400/800
VOLTS 220 AMPS. 92.5 PHASES - CYCLES -
ROTOR VOLTS - ROTOR AMPS. - RATING 1/2 HOUR 81°F
ENCLOSURE T.E.W.T. WINDING COMPOUND YEAR 1943
AIRGAP 7/64" SHUNT FIELD RESISTANCE (Cold) 272 OHMS (TOTAL).
NO. BRUSH ARMS 4 BRUSHES PER ARM 2 - $\frac{7}{8}$ " x $\frac{1}{2}$ " QUALITY H.M.6
SIZE OF MAG. BRAKE 12.1/4" F.M.D. BRAKE SHUNT RESISTANCE (Cold) 218 OHMS.
RESISTANCE OF SERIES FIELD COILS = .0556 OHMS, COLD. TOTAL.
RESISTANCE OF INTERPOLE " " = .0526 " " "

TESTS REQUIRED

1/2 HOUR FULL LOAD TEMPERATURE RUN.

USUAL STEPPING TESTS.

SLIPPING CLUTCH TO RENDER 21 TONS, TO BE SET TO SUIT (APPROX. 120 AMPS).

OVERLOAD RELAY SETTING 139 AMPS.

LLOYDS CERTIFICATE REQUIRED.



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Lloyd's Register
Foundation

010466-010471-0285

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Continuation Test Sheet for Motor No. 16621

Inspectors present at Test **MR. VENNING.**

Date **3/5/44**

84/385

Time	Weight	Lift or Lower	Step on Con- troller	Volts	Amps	Revs. Arm.	Revs. Barrel Ward Ends	Distance Timed	Time in Seconds	F.P.M.	Effy.	Remarks
<div>SHUNT AMPS</div> <div>1/2 HOUR TEMPERATURE TEST ON FULL DEAD.</div> <div>COLD SHUNT RESISTANCE <u>OHMS.</u> 265</div>												
10-00 AM.			FULL	220	93	415	.76	C.C.W.		HOT	"	" 307
10-10 "			FULL	220	93	415	.74	C.C.W.				
10-20 "			FULL	220	93	418	.7	C.C.W.		COLD BRAKE SHUNT RESISTANCE =	<u>OHMS</u> 226	
10-30 "			FULL	220	93	415	.69	C.C.W.		HOT	"	" " = 275
BRUSH			FULL	220	93	415	.72	C.C.W.		BRAKE SPRING PRESSURE SET TO		
SETTING			FULL	220	93	410	.72	C.W.		STALL MOTOR AT 130 AMPS.		
										BRAKE WORKS SATISFACTORILY AT		
LOAD			150%	220	138	345	.72	C.W.		180 VOLTS AFTER 1/2 HOUR ON		
CURVE.			125%	220	117	370	.72	C.W.		220 VOLTS.		
			100%	220	93	410	.72	C.W.				
			75%	220	70	470	.72	C.W.				
			50%	220	46	555	.72	C.W.				
			25%	220	24	720	.72	C.W.				

	Arm. Core	Arm Winding	Commutator	Shunt	Series	Inter
Air Temp. °F	108	116	102	110	110	116
Temp. Rise °F	.62	.62	.62	.62	.62	.62
	46	54	40	48	48	54

Tested **R. LUMLEY & E. FAIRLESS.**

Passed **G. BROWN.**

Date **3/5/44**

INSULATION TEST.

2000 Volts A.C. applied to Whole
 Equipment for 2 minutes.
 Insulation Resistance 50 Megohm.

CLARKE, CHAPMAN & CO. LTD.

CONTROLLER NO. 2232B (LAURENCE SCOTT & E.)
RESISTANCE NO. 5191/2 (EXPANDED METAL CO. LTD.)

Continuation Test Sheet for Motor No. 16621

Inspectors present at Test MR. ALLEN (LLOYDS).
MR. VENNING (A.R.E.E.)

Date 5/6/44.

84/885

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
	8-TONS	HEAVE	1	220	74	(DIVERTER)						
			2	220	72	(STEP)		8FT	STALLED			SLIPPING CLUTCH SET TO
			3	220	84			"	64.8	7.3		SLIP AT 120 AMPS.
			4	220	82			"	25	19.2		OVERLOAD SET AT 139 AMPS.
			5	220	82			"	17	28		
		FULL	6	220	84			"	15	32		
	LOWER		1	220	45	(DIVERTER)		8FT	20	24		
	4-TONS	WARP END.										
	HEAVE	FULL		220	92			8FT	7			

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

Tested

Passed

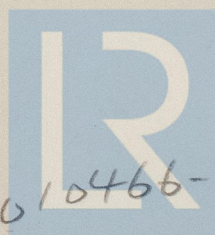
Date

INSULATION TEST.

Volts A.C. applied to Whole

Equipment for minutes.

Insulation Resistance Megohm.



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