

LAURENCE, SCOTT & ELECTROMOTORS, LTD., NORWICH.

M.V. "EMPIRE TEDRITA"
(A.J. Inglis Yd. No. 1314P)

11A97543/3/45

Certificate of Test of Machine No. 98746.

Size DN35 Shop Order H.5246. Date of Test Aug. 22/45. Your Order No. -

Description One of four, totally-enclosed, deck-watertight motors, series-wound with limiting shunt. Compound-wound Magnetic Brakes.

B.H.P. 20 Volts. 110 Amperes 160 Revs. per Min. 750/1500

TEST RECORD.

Time.	Volts.	Amperes.	Revs. per Min.	Temp. of Air °Fahr.	Series Diverter Amps	Remarks.
1/2-Hour Run. Rotation Counterclock Commr. End.						
10.40	110	160	1500	66	117	Load applied by belt.
10.50	"	"	"	"	"	Free from sparking.
11.00	"	"	"	67	"	Bearings cool.
11.10	"	"	"	"	"	
Top Speed by Series Diverter.						
	110	240	1276	-		50% Overload.
	"	160	1500		117	Full Load.
	"	9	2060			Light Load.
Bottom Speed. Brushes in Mid Position.						
	110	160	770	-	-	Full Load.
	"	240	655			50% Overload.
	"	200	700			25% do.
	"	120	845			3/4 Load.
	"	80	980			1/2 Load.
	"	30	1325			Light Load.

FINAL TESTS.

(Applied immediately after the Test Run).

TEMPERATURE TEST (Degrees Fahr.)

	Armature	Commutator.	Magnet Coils. Shunt.	Series.	Interpole Coils.
Machine	142	132	116	117	129
Air	67	67	67	67	67
Temp. Rise	75	65	49	50	62

VIBRATION TEST.

No vibration during Test.

OVERLOAD TEST.

An Overload of 50 % was applied for 1 minutes.

HIGH-PRESSURE TEST.

An alternating pressure of 2000 volts was successfully applied for 1 minutes. (Also shunt windings to earth for 1 Min.)

INSULATION TEST.

(Measured by 500 volt "Megger.")

50 megohms (main windings to earth).
50 do. (shunt " " ").



BRUSH GEAR DETAILS. Size of Carbons 7/8" x 5/8" Quality Link EG.14. No. of Holders 4. No. per Holder 3

GENERAL NOTES. A thorough test was made of the brake which operated satisfactorily.

Tilt Test satisfactory.

For Anchor Windlasses Nos. 4272 - 5. Messrs. A. & J. Inglis.

Certified by

J. Rackham
Testing Engineer.

Present at Test

No 4275 Wind

W986-0186