

LAURENCE, SCOTT & ELECTROMOTORS, LTD., NORWICH.

M.V. "EMPIRE TEDRITA"
(A.R.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
=~~KAW~~=

TEST RECORD.

Series
Diverter

Time.	Volts.	Amperes.	Revs. per Min.	Temp. of Air °Fahr.	Remarks.
<u>1/2-Hour Run.</u> <u>Rotation Counterclock Commr. End.</u>					
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	-	117	50% Overload.
"	160	1500			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	Comm- tator.	Magnet Coils. Shunt, Series.	Interpole Coils.
Machine	142	132	116	117
Air	67	67	67	67
Temp. Rise	75	65	49	50

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 $\frac{7}{8}$ " \times $\frac{5}{8}$ " 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

Present at Test

N^o 4275 WindA. Rackham
Testing Engineer.

W 986-0186