

LAURENCE, SCOTT & ELECTROMOTORS, LTD., NORWICH.

# Certificate of Test of Machine No. 96809.

Size **DN35B.** Shop Order **G.7516** Date of Test **April 24/45.** Your Order No. -

Description **One of four totally-enclosed deck-watertight Motors with Brakes. Series-wound with Limiting Shunt.**

B.H.P. **18** Volts. **110** Amperes **150** Revs. per Min. **750/1500**

## TEST RECORD.

Time.	Volts.	Amperes.	Revs. per Min.	Temp. of Air °Fahr.	Shunt Amps.	Remarks.
<b>1/2-hour Run.</b>						
3.00	110	150	765	59	-	Load applied by belt.
3.15	"	"	767	"		Free from sparking.
3.30	"	"	768	"		Bearings cool.
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110	150	767	-	-	-	Full Load.
"	300	570				100% Overload.
"	225	646				50% do.
"	187	707				25% do.
"	112	861				3/4 Load.
"	75	1040				1/2 do.
"	44	1272				Light belted.
"	9	1780				Light Load.
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## FINAL TESTS.

(Applied immediately after the Test Run).

TEMPERATURE TEST (Degrees Fahr.)

	Armature	Commutator.	Magnet Coils.	Interpole Coils.
Machine	129	129	110	118
Air	59	59	59	59
Temp. Rise	70	70	51	59

VIBRATION TEST.  
 No vibration during Test.

OVERLOAD TEST.  
 An Overload of - % was applied for - minutes.

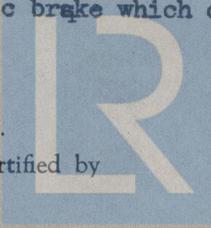
HIGH-PRESSURE TEST.  
 An alternating pressure of 2000 volts was successfully applied for 1 minute.  
 (Also shunt to series for minute).

INSULATION TEST.  
 (Measured by 500 volt "Megger.")  
 50 megohms (whole machine).  
 100 do. (shunt to series).

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 disc brake which operated satisfactorily.  
 Windlasses Nos. 4181/2/3 & 4.



Certified by  Lloyd's Register  
 Testing Engineer. *W. J. Smith*  
 W986-0218

Present at Test