HENRY ROBB. YARD 335. GEAR OIL. PUMP

LANCASHIRE DYNAMO & CRYPTO LTD.

TEST OF CONTINUOUS CURRENT ~~DYNAMO~~ MOTOR No. 189236.

For Messrs. The Hamworthy Engineering Co. Ltd.

Their Order No. 78451. dated 19.11.42. Present

Test Date 17.6.43. **TYPE OF MACHINE** Comp. Wound. Drip-proof

Frame Size	H.P./~~K.W.~~	Volts	Amps.	R.P.M.	Rating
D70A	19	220	76	505/720	Continuous.

Time	R.P.M.	ARMATURE Volts	ARMATURE Amps.	FIELD Volts	FIELD Amps.	
		Temperature Run.				
4-0 A.M.	720	220	75	80	1.2	100% load - 19 H.
5-0	720	220	75	85	1.2	
6-0	720	220	75	87	1.2	
7-0	720	220	75	88	1.2	
8-0	720	220	75	88	1.2	
9-0	720	220	75	88	1.2	
10-0 A.M.	720	220	75	88	1.2	
		Temps. "A" and resistances taken.				
		Various Loads.				
	760	220	40	88	1.2	50% load. } Top Speed.
	740	220	58.5	88	1.2	75% " }
	520	220	27.0	189	2.6	50% load.
	512	220	39.5	189	2.6	75% "
	505	220	52.5	189	2.6	100% " 13½ H
	500	220	65.0	189	2.6	125% "
	492	220	78.5	189	2.6	150% "
		Light Readings				
	820	220	2.85	88	1.2	No load.
	720	193	2.58	88	1.2	" "
	530	220	2.15	189	2.6	" "
	505	210	2.10	189	2.6	" "
	Hot Resistance of armature:-		.153 ohms.			Full load b/fy. 87.3%
	" " " Series :-		.008 "			
	" " " Interpole :-		.0586 "			

Insulation Tested 2000 Volts for 1 Mins: Insulation Resistance 100 Megohms.

TEMPERATURE °F C	A	B	RISE °F C A	B
Armature	46		25	
Commutator	37		16	
Shunt	38		17	
Series	38		17	
Interpole	41		20	
Atmosphere	21		–	

Air Gap .070" .072" .070" .074"

SURVEYOR TO LLOYDS REGISTER 30 NOV. 1944 GLASGOW

SIGNED

DATE 23/6/43

Form 9/2b

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