

HARLAND AND WOLFF, LTD.

Ordre Nr. 26072 Pz. 110/113

Date 1/12/13

TEST CERTIFICATE of MOTOR-GENERATOR for SHIP No. Odense Staalskibsværft A/S

Makers No. 8873 & 8879 Purpose Generators Time Rating Continuous

B.H.P. - K.W. 30 R.P.M. 625 Volts 110 Amps 273 Rotation C.C.L. (Comm. end)

No. 8879 operated as motor driving 8873 as generator during 6 hrs. heat run

MOTOR

Hopkinson parallel connections

GENERATOR

Time	R.P.M.	Line Volts	Amps Input	Amps Shunt	Volts Shunt	TEMPERATURES				Amps Output	Amps. Shunt	Volts Shunt	TEMPERATURES			Ex Air	Amb Air
						Sh	Se	Ip.	Ex Air				Sh	Se	Ip		
9.0	625	110	346	2.1	54					273	3.15	79					60
10.0	"	"	347	2.0	57	Enclosed				92	"	86	Enclosed			86	62
11.0	"	"	"	"	59	Ventilated				106	"	89	Ventilated			93	64
12.0	"	"	"	"	61				114	"	"	91				94	65
1.0	"	"	"	"	62				116	"	"	92				95	"
2.0	"	"	"	"	"				117	"	"	"				94	63
3.0	"	"	"	"	"				116	"	"	"				92	62

STOP FOR TEMPERATURES

No. 8879 operating as a motor-generator for Compounding & Regulation Test Output

No. 8873 operating as a motor-generator for Compounding & Regulation Test

	625	110	273	3.05	90	Full Load (hot)			273	3.0	88	110	625	Full Load (hot)			
	631	115	264	3.2	94	3/4	"	"	264	3.15	93	115	631	3/4	"	"	
	637	118	136	3.27	97	1/2	"	"	136	3.23	95	118	637	1/2	"	"	
	643	115	68	3.2	94	1/4	"	"	68	3.15	95	115	643	1/4	"	"	
	650	110	0	3.05	90	No	"	"	0	3.0	88	110	650	No	"	"	
	637	"	136	3.3	82	1/2	"	"	136	2.8	82	"	637	1/2	"	"	
	650	99	0	2.65	66	No	"	" (cold)	0	2.7	67	99	650	No	"	" (cold)	

TEMPERATURES DEG. FAH. AFTER 6 HOURS

AIR TEMP. 62°F.

	CORE	WINDG.	COMM.	SHUNT	SERIES	INTER POLE	Yoko	CORE	WINDG.	COMM.	SHUNT	SERIES	INTER POLE	Yoko
RISE	174	188	135	168	202	107		119	122	117	114	121	86	
	112	126	75	106	140	45		57	60	55	52	59	24	

TEMPERATURES DEG. FAH. AFTER HOURS AT 25% O.L.

AIR TEMP. °F

RISE														
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OVERLOAD TEST 25% Applied for 1 mt. 50% Applied for 100% Applied for

COMMUTATION

Sparkless up to 25% overload

Pressure withstood 2000 Volts A.C. for 1 minutes.

Insulation test of entire machine hot-cold by 1000 Volt Megger.

Balance at max. speed In order Bearings In order

Endplay Mech. Air Gap Main Pole .12" Interpole .1"

NOTES :-

Mr. Fleming Mack



004591-004595-0069