

Ordre Nr. 26072 Prg. 1107113

HARLAND AND WOLFF, LTD.

Date17/12/48

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

Makers No.8880 & 8881

PurposeGenerators

Time RatingContinuous

B.H.P. - K.W.30

R.P.M.625

Volts110

Amps.273

RotationC-Clock

(Comm. end)

No.8880

operated as motor driving8881

as generator during6

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		
.45	625	110	346	2.3	61				-	273	3.1	80				-	63
.45	"	"	"	2.08	60	Enclosed			102	"	2.95	78	Enclosed			86	65
0.45	"	"	"	2.05	62	Ventilated			114	"	"	81	Ventilated			92	67
1.45	"	"	"	"	64				118	"	"	83				95	68
2.45	"	"	"	"	65				119	"	"	84				96	"
1.45	"	"	"	"	66				120	"	"	"				"	"
.45	"	"	"	"	"				"	"	"	"				"	"

STOP FOR TEMPERATURES

No.8880

operating as a motor-generator for

Compounding & Regulation Test

Output

No.8881

operating as a motor-generator for

Compounding & Regulation Test

Volts RPM.

625	110	273	3.0	87	Full Load (hot)			273	2.95	84	110	625	Full Load (Hot)		
631	116	204	3.15	92	3/4	"	(")	204	3.1	89	115	631	3/4	"	"
637	119	136	3.2	94	1/2	"	(")	136	3.15	91	118	637	1/2	"	"
643	116	68	3.15	92	1/4	"	(")	68	3.1	89	115	643	1/4	"	"
650	110	0	3.0	87	No	"	(")	0	2.95	84	110	650	No	"	"
637	"	136	2.78	80	1/2	"	(")	136	2.7	77	"	637	1/2	"	"
650	99	0	2.65	67	No	"	(cold)	0	2.6	66	99	650	No	"	(cold)

TEMPERATURES DEG. FAH. AFTER6 HOURS

AIR TEMP.68 °F.

TEMPERATURE														
ISE	CORE	WINDG.	COMM.	SHUNT	SERIES	INTER POLE	Yoke	CORE	WINDG.	COMM.	SHUNT	SERIES	INTER POLE	Yoke
		187	188	145	182	212	119		124	123	118	118	123	90
		119	120	77	114	144	51		56	55	50	50	55	22

TEMPERATURES DEG. FAH. AFTERHOURS AT 25% O.L.

AIR TEMP.°F

--	--	--	--	--	--	--	--	--	--	--	--	--	--

OVERLOAD TEST25% Applied for1 mt. 50% Applied for- 100% Applied for-

COMMUTATIONSparkless up to 25% overload

Pressure withstood2000 Volts A.C. for1 minutes.

Insulation test of entire machine hot-cold by1000 Volt Megger.

Balance at max. speedIn order BearingsIn order

EndplayMech. Air GapMain Pole .12" Interpole .1"

OTES :-



004591-004595-0070