

# Report on Electrical Equipment.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 26 AUG 1946

Date of writing Report 21st Aug. 1946. When handed in at Local Office 22nd August 1946. Port of Gothenburg.

Survey held at Marstrand and Gothenburg. Date, First Survey 15th July. Last Survey 23rd July 1946. No. in Reg. Book. (Number of Visits 3)

33791 on the Motorship "S. E. R. I. G. I." (Launched as "Stadt. Schleswig"). Tons {Gross 514  
Net 297  
Launched 1944  
Built at Marstrand By whom built A.-B. Marstrands Mek. Værksted Yard No. 17 When built Comm. 7, 46

Owners Doctor Humberto Armação Port belonging to Rio de Janeiro

Electrical Installation fitted by Elektriska A.-B. A.E.G., Gothenburg. Construction No. 1553233-4 When fitted 1946

Is vessel fitted for carrying Petroleum in bulk No. Is vessel equipped with D. F. E. S. D. Yes. Gy. C. Sub. Sig.

Have plans been submitted and approved Yes. System of Distribution Single wire, hull rta Voltage of supply for Lighting 220

Heating Power 220. Direct or Alternating Current, Lighting D.C. Power D.C. If Alternating Current state frequency Prime Movers,

has the governing been tested and found efficient when the whole load is suddenly thrown on and off Yes. Are turbine emergency governors fitted with a trip switch as per Rule Generators, are they compound wound Yes are they level compounded under working conditions Yes

if not compound wound state distance between generators and from switchboard Where more than one generator is fitted are they arranged to run in parallel No are shunt field regulators provided Yes Is the compound winding connected to the negative or positive pole

Negative Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing Have certificates of test for machines under 100 kw. been supplied and the results found as per rule Are the lubricating arrangements and the construction

of the generators as per rule Yes Position of Generators Engine room floor

is the ventilation in way of generators satisfactory Yes are they clear of inflammable material Yes if situated near unprotected combustible material state distance from same horizontally and vertically are the generators protected from mechanical

injury and damage from water, steam and oil are the bedplates and frames earthed Yes and the prime movers and generators in metallic contact Yes Switchboards, where are main switchboards placed Engine room floor

are they in accessible positions, free from inflammable gases and acid fumes Yes are they protected from mechanical injury and damage from water, steam and oil Yes if situated near unprotected combustible material state distance from same horizontally and vertically what insulation

material is used for the panels Isolite if of synthetic insulating material is it an Approved Type Yes if of semi-insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule Is the frame effectually earthed Yes

Is the construction as per Rule Yes including accessibility of parts Yes absence of fuses on the back of the board Yes individual fuses to pilot and earth lamps, voltmeters, etc. Yes locking of screws and nuts Yes labelling of apparatus and fuses Yes fuses on the dead

side of switches Yes Description of Main Switchgear for each generator and arrangement of equaliser switches

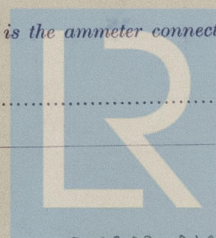
A fuse and a single pole switch on the insulated pole

and for each outgoing circuit A fuse and a single pole switch on the insulated pole

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule Yes Instruments on main switchboard 3

ammeters 3 voltmeters synchronising devices For compound machines in parallel is the ammeter connected to the pole opposite to the

equaliser connection Earth Testing, state means provided



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### PARTICULARS OF GENERATING PLANT.

PARTICULARS OF GENERATING PLANT.							WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE	
DESCRIPTION OF GENERATOR	No. of	RATED AT			DRIVEN BY	Fuel Used.	Flash Point of Fuel.	
		Kilowatts.	Volts.	Ampères.				Revs. per Min.
MAIN	2	53	220	230	500	2-cyl. 2 SCSEA oil engines	Diesel oil	Above 150° F.
HARBOUR LIGHTING SET	1	15	220	65	800	1-cyl. 2 SCSEA oil engine	Diesel oil	Above 150° F.
EMERGENCY ROTARY TRANSFORMER								

[illegible][illegible][illegible]

MOTOR CABLES.									
ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B. H. P.							
Ballast pump	1	10 HP	1	16	39.6	48.0	22	Rubber	"-
Lubricating and fuel oil pump	1	4.4 HP	1	10	23.5	38.2	15	"	"-
Sanitary pump	1	5 HP	1	6	20.6	29.4	17	"	"-
Manoeuvring compressor	1	7.5 HP	1	16	38.5	48.0	10	"	"-
Purifier	1	1.1 HP	1	2.5	10	12.8	10	"	"-
Refrigerating machinery	1	0.66 HP	1	1.5	6	6.5	20	"	"-
Windlass	1	16 HP	1	25	64	63.5	55	"	"-
Steering engine	1	6 HP	1	6	27.5	29.4	20	"	"-
Winches aft	2	16 HP	1	16	83	49.8	15	"	"-
Winches amidships	2	25 HP	1	25	130	66.5	32	"	"-
Winches forward	2	16 HP	1	16	83	49.8	35	"	"-

x) The same cable as for windlass.



The Electrical Equipment is installed in accordance with the approved plans and the requirements of the Rules.  
All Insulated Conductors are guaranteed to have been tested at the maker's works as specified in the Rules.  
The foregoing is a correct description.

..... Electrical Engineers. Date .....

COMPASSES.

Minimum distance between electric generators or motors and standard compass .....

Minimum distance between electric generators or motors and steering compass ..... 6 Metres.

The nearest cables to the compasses are as follows: —

~~twin~~  
A/cable carrying ..... 0.5 ..... Ampères ..... feet from standard compass ..... 3 ..... feet from steering compass.

~~twin~~  
A/cable carrying ..... 6 ..... Ampères ..... feet from standard compass ..... 6 ..... feet from steering compass.

A cable carrying ..... Ampères ..... feet from standard compass ..... feet from steering compass.

Have the compasses been adjusted with and without the electric installation at work at full power ..... No

Has the effect of switching on and off circuits, motors and other electro-magnetic apparatus within the vicinity of the compasses been noted .....

The maximum deviation due to electric currents was found to be ..... degrees on ..... course in the case of the  
standard compass, and ..... degrees on ..... course in the case of the steering compass.

..... Builder's Signature. Date .....

Is this installation a duplicate of a previous case ..... No ..... If so, state name of vessel .....

General Remarks (State quality of workmanship, whether insulation tests, etc., have been made, opinions as to class, etc.) .....

~~This electric installation has been examined, megger tested and tested under working  
conditions and found satisfactory.~~

Total Capacity of Generators ..... 121 ..... Kilowatts.

The amount of Fee ..... Kr. 300:00 { When applied for,  
29/7 19.46  
Travelling Expenses (if any) Kr. — { When received  
29/7 19.46

FRI. 11 OCT 1946

Committee's Minute .....

Assigned ..... See EE. mch. rpt.

*A. Sjögren*  
Surveyor to Lloyd's Register of Shipping



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Foundation