

Report on Electrical Equipment.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

10 SEP 1946

Received at London Office

Date of writing Report... 24th Aug. 1946. When handed in at Local Office... 6 September 46. Port of ... Gothenburg.

Survey held at ... Kalmar Date, First Survey... 23rd April Last Survey... 22nd August 1946.
No. in Reg. Book. (Number of Visits... 4)... 38169 on the ... Motorship "I. V. A. N." Tons {Gross... 554
Net... 307

Built at ... Kalmar By whom built ... Kalmar Vary Yard No. ... 355 When built ... 1946

Owners ... Rederi A-B, Ruth Port belonging to ... Gothenburg

Electrical Installation fitted by ... Ernst Aldén & Co. Contract No. ... When fitted ... 1946

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

Have plans been submitted and approved... Yes System of Distribution ... Two wire Voltage of supply for Lighting... 115

Heating... Power... 115 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... Yes and the results found as per rule... Yes Are the lubricating arrangements and the construction

of the generators as per rule... Yes Position of Generators... One on each side on the 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... Yes are the bedplates and frames earthed... Yes and the prime movers and generators in metallic

contact... Yes Switchboards, where are main switchboards placed... Aft in the engine room

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... Mica if of synthetic insulating material is it an Approved Type... 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... For the 40 KW generator

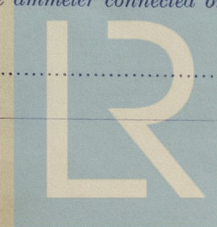
a double pole circuit breaker with overload and reversed current trip, for the 4 KW generator a double pole switch with a fuse on each pole

and for each outgoing circuit... A double pole switch and a fuse on each pole

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

ammeters... 2 voltmeters... synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to the

equaliser connection... Earth Testing, state means provided... Ohm-meter



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situations **Yes** **Insulation Tests**, has the insulation resistance of all circuits and apparatus been megger tested and found satisfactory **Yes**

DESCRIPTION OF GENERATOR	No. of	RATED AT				DRIVEN BY		WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE	
		Kilowatts.	Volts.	Ampères.	Revs. per Min.		Fuel Used.	Flash Point of Fuel.	
MAIN	1	40	115	348	1000	Hot bulb motor	Diesel oil	Above 150°F.	
	1	4	115	35	1500	Hot bulb motor	Diesel oil	Above 150°F.	
EMERGENCY									
ROTARY TRANSFORMER									

DESCRIPTION	KILOWATTS	CONDUCTORS		MAXIMUM CURRENT IN AMPERES		APPROX. LENGTH (lead plus return) metres Metres	INSULA- TED WITH	HOW PROTECTED.
		No. in Parallel Per Pole	Sectional Area or No. and Dia. of Strands, Sq. Ins. or sq. mm.	In the Circuit	Rule			
MAIN GENERATOR	40	1	185	348	373 ✓	10	Paper	Lead covered & armoured
“ “ EQUALISER								
	4	1	16	35	48 ✓	12	Rubber	- " -
EMERGENCY GENERATOR								
ROTARY TRANSFORMER: MOTOR ...								
“ “ GENERATOR ...								

[illegible][illegible][illegible]

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.

Aktiebolaget
Ernst Albin & C:o
H. Albin

Electrical Engineers.

Date

22/8-46

COMPASSES.

Minimum distance between electric generators or motors and standard compass ... 8 Metres.

Minimum distance between electric generators or motors and steering compass ... 8 Metres.

The nearest cables to the compasses are as follows:—

A cable carrying ... 0.35 ... Ampères ... feet from standard compass ... 3 ... feet from steering compass.

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

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

The maximum deviation due to electric currents was found to be ... 0 ... degrees on ... every ... course in the case of the standard compass, and ... 0 ... degrees on ... every ... course in the case of the steering compass.

KALMAR VARV

Builder's Signature.

Date 22.8.46

Is this installation a ~~new~~ ^{similar to} a previous case ... Yes ... If so, state name of vessel M.S. "Ruth", Yard No. 353.

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

This electrical installation has been fitted on board under my inspection and to my satisfaction and has been tested and found to work satisfactorily.

Test certificate in respect of the small generator and windlass will be forwarded later.

Received 25.9.46

Noted 24.9.46

Total Capacity of Generators ... 44 ... Kilowatts.

The amount of Fee ... Kr. 494:00

When applied for, 6/9 1946.

Travelling Expenses (if any) Kr. —

When received ... 19...

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 27 SEP 1946

Assigned

See F.E. machy. rpt.

(The Surveyors are requested not to write on or below the space for Committee's Minute.)