

2 JUL 1943

15661

Report on Electrical Equipment

NOTED THAN FOR THE PROVISION OF THE VESSEL

GO THEN BURG.

Survey made at Gothenburg Date, First Survey Last Survey 19
(Number of Vessels)
on the s.s. "RUDOLF" Tons

Built at Gothenburg By whom built A/B. Lindholmens Varv Yard No. 973 When built 1943.

Owner Rederiaktiebolaget Bifrost Port belonging to Gothenburg.

Electrical Installation fitted by A.E.G. Contract No. -- When fitted 1943.

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

Have plans been submitted and approved Yes System of Distribution Two wire parallel system Voltage of supply for lighting 115

Heating Power Direct or Alternating Current, Lighting Direct Power -- 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 short 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 Main generator on a platform in the engine room Harbour light generator on the E.R. 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 Switchboard/ where are main switchboards placed on starboard side 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 -- are they insulated

material as used for the panels Marble if of synthetic insulating material is it an Approved Type -- if no

semi-conducting material (stone or marble) are all conducting parts insulated therefrom as per Rule Yes Is the frame effectively 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 tests

to test and earth lamps, collectors, etc. Yes locking of screws and nuts Yes labelling of apparatus and fuses Yes fuses on the dead

ends of switches Yes Description of Main Switchgear for each generator and arrangement of equaliser switches a double pole

switch and two fuses.

a double pole switch and two fuses.

Yes Instruments as per Rule 2

2

Ohm meter.



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Wires, Cables, Switches and Fuses, are they as per Rule? **Yes**

per Rule **Yes** ... are they covered and protected as per the Rules? **Yes**

under working conditions? **Yes** ... Joint Boxes, Section Boards and Distribution Boards, are they as per Rule? **Yes**

Cables, are they insulated and protected as per the Rules? **Yes** ... below allowance per Rule.

type? **Yes** ... state, in a room full of pressure between his bars and any point under any circumstances? **Yes**

area of 0.04 square inch and above, provided with soldering sockets? **Yes** ... Are cables insulated and covered as per the Rules? **Yes**

ends? **Yes** ... with insulating compound? **Yes** ... in water-tight conduits? **Yes** ... Are all the cables, when in use, in a room, and used in

drip or accumulation of water or oil, high temperatures or risk of mechanical damage? **Yes** ... are cables in machinery spaces, galleys, landings, etc., and passages? **Yes** ... are they adequately protected? **Yes** ... Are cables in machinery spaces, galleys, landings, etc., and passages? **Yes** ... State how the cables are supported and protected. **Supported by metal clips. Power cables are lead covered and armoured, light cables in cabins are lead covered.**

Are all lead sheaths, armoured and conduits effectively bonded and earthed? **Yes** ... Refrigerated chambers, are the cables and fittings as per Rule? **Yes**

Are all cables passing through decks and watertight bulkheads provided with deck tubes or watertight glands? **Yes** ... where watertight cables pass through beams, etc., are the holes effectively bushed? **Yes** ... and with what material? **lead.** ... Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule? **Yes** ... Emergency Supply, state position? **Yes** ... and method of control? **Yes** ... Navigation Lamps, are they separately wired? **Yes** ... controlled by separate double pole switches? **Yes** ... and fuses? **Yes** ... Are the switches and fuses in a position accessible only to the officers on watch? **Yes** ... is an automatic indicator fitted? **Yes** ... Secondary Batteries are they constructed and fitted as per Rule? **Yes** ... are they adequately ventilated? **Yes** ... Fittings, are all fittings on weather decks, in storerooms and engine rooms and wherever exposed to drip or condensed moisture, weatherproof? **Yes** ... are fittings installed where readily combustible materials or inflammable or explosive dust or gases are likely to be present? **No** ... if so, how are they protected? **Yes** ... and where are the controlling switches fitted? **Yes** ... are all fittings suitably ventilated? **Yes** ... are all fittings and accessories constructed and installed as per Rule? **Yes** ... Searchlight Lamps, No. of? **Yes** ... whether fixed or portable? **Yes** ... are their fittings as per Rule? **Yes** ... Heating and Cooking, is the general construction as per Rule? **Yes** ... are the frames effectively earthed? **Yes** ... are heaters in the accommodation of the convection type? **Yes** ... Motors are all motors constructed and installed as per Rule? **Yes** ... and placed in well-ventilated compartments in which inflammable gases cannot accumulate and free from damage from steam and oil? **Yes** ... if situated near unprotected combustible material state minimum distance from same horizontally? **Yes** ... and vertically? **Yes** ... Have motors of 100 BHP and over been inspected by the Surveyors during manufacture and testing? **Yes** ... Have certificates of test for motors under 100 BHP intended for essential services been supplied and the results found as per Rule? **Yes** ... Control Gear and Resistances are they constructed and fitted as per Rule? **Yes** ... Lightning Conductors, where required are they fitted as per Rule? **Yes** ... Ships carrying Oil having a Flash Point less than 150° F. Have all the special requirements of the Rules for such ships been complied with? **Yes** ... are all pieces of the machinery? **Yes** ... are they of an approved type? **Yes** ... if portable lamps for use in dangerous spaces are supplied, are they of a self-contained battery fed, explosion proof type? **Yes** ... Spare Gear, if the vessel is for open sea service have spares been provided as per Rule? **Yes** ... are they installed as per Rule? **Yes** ... Insulation Tests, has the insulation resistance of all circuits and apparatus been measured and found satisfactory? **Yes**

PARTICULARS OF GENERATING PLANT.

DESCRIPTION OF GENERATOR	No. of	Kilowatts	Volts	Amperes	Rev. per min.	DRIVE BY	WHEEL LAUNCH
MAIN	1	10	115	87.5	655	steam engine	
HARBOUR SET	1	5	115	43.5	1000	Hot bulb motors	Solar oil. Above 150° F
ROTARY TRANSFORMER							

DESCRIPTION	Rating	No. of	Volts	Amperes	Rev. per min.	DRIVE BY	WHEEL LAUNCH
MAIN GENERATOR	10	1	50	87.5	99	10	Rubber Lead covered and armoured.
Harbour Light	5	1	16	43.5	48	8	Rubber Lead covered and armoured.
ROTARY TRANSFORMER; MOTOR							
GENERATOR							

MAIN DISTRIBUTION CABLES.

AUX. SWITCHBOARDS AND SECTION BOARDS

LIGHTING AND HEATING, ETC., CABLES.

WIRELESS	1	10	25	38	90	Rubber	Lead covered and armoured.
NAVIGATION LIGHTS	1	2.5	9	13	80	"	- do -
LIGHTING AND HEATING							
Accommodation aft.	1	6.0	25	29.4	14	"	- do -
Deck light forward	1	6	25	29.4	130	"	- do -
Saloons accommodation	1	6	25	29.4	85	"	- do -
Engine and boiler rooms	1	2.5	13	13	2	"	- do -
Water heater	1	1.5	6	7	12	"	- do -

MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.						
Motor for lathe	1	1.8	1	2.5	14	13	14	" - do -
Lubr. oil separator	1	0.4	1	1.5	3.8	7	22	" - do -
Drilling machine	1	0.35	1	1.5	3.4	7	22	" - do -
Grinding machine	1	0.33	1	1.5	3.4	7	20	" - do -
Lubricating oil pump	-	0.45	1	1.5	4.2	7	26	" - do -

CONTINUED.

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

Minimum distance between electric generators or motors and steering compass 6 "

The wiring cables to the compasses are as follows:

A cable carrying Amperes feet from standard compass feet from steering compass

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A cable carrying Amperes feet from standard compass feet from steering compass

Have the compasses been adjusted both 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 degrees on course in the case of the standard compass, and degrees on course in the case of the steering compass.

A-B. LINDHOLMENS VARV
 (Sgt.) Hilding Nielsen 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 fitted under Special Survey in accordance with the Rules and approved plans.

The workmanship is good.

Makers certificates of electric generators are attached.

The installation has been megger tested and examined under full working conditions and found satisfactory.

Noted
 L.F.
 12/2/43.

Total Capacity of Generators 15 Kilowatts.

The amount of fee KR. 285 00 When applied for 16th June 43.

TUES. 20 JUL 1943

see minute
 on H. richy Rpt.



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