

Rpt. 13.

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 27 MAR 1935

No. 55504

Date of writing Report 23-2-1935 When handed in at Local Office 23.3.1935 Port of Glasgow.

No. in Survey held at Greenock. Date, First Survey 26.12.30 Last Survey 22-3-1935
Reg. Book, 91765 on the s.s. "VOREDA" Tons { Gross 7216
Net 4373

Built at Greenock By whom built Greenock Dockyard Co Ltd Yard No. 420 When built 1935

Owners Voresta Steamship Co. Ltd (Glasgow & Co. Ltd) Port belonging to Glasgow.

Electric Light Installation fitted by The Sunderland Forge & Eng. Co. Ltd Contract No. B4332 When fitted 1935

Is the Vessel fitted for carrying Petroleum in bulk Yes.

RETAIN

System of Distribution DOUBLE WIRE 110 volts, Heating 110 volts, Power 110 volts.

Pressure of supply for Lighting 110 volts, Heating 110 volts, Power 110 volts.

Direct or Alternating Current, Lighting DIRECT CURRENT Power

If alternating current system, state frequency of periods per second

Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off YES

Generators, do they comply with the requirements regarding rating YES, are they compound wound YES

are they over compounded 5 per cent. YES, if not compound wound state distance between each generator

Where more than one generator is fitted are they arranged to run in parallel, is an adjustable regulating resistance fitted in

series with each shunt field

Are all terminals accessible, clearly marked, and furnished with sockets YES, are they so spaced or shielded that they cannot be accidentally earthed,

short circuited, or touched YES Are the lubricating arrangements of the generators as per Rule YES

Position of Generators IN MAIN ENGINE ROOM YES, are they clear of all inflammable material YES

is the ventilation in way of the generators satisfactory YES, are they clear of all inflammable material YES

if situated near unprotected woodwork or other combustible material, state distance of same horizontally from or vertically above the generators

and, are the generators protected from mechanical injury and damage from water, steam or oil YES

are their axes of rotation fore and aft YES, are the prime movers and

Earthling, are the bedplates and frames of the generating plant efficiently earthed YES

their respective generators in metallic contact YES

Main Switch Boards, where placed IN MAIN ENGINE ROOM NEAR GENERATOR.

If the generators and main switchboard are not placed in the same compartment, is each generator provided with

a fuse on each insulated pole as near as possible to the terminals of the generator, additional to that provided on the main switchboard

Switchboards, are they placed in accessible positions, free from inflammable gases and acid fumes YES

are they protected from mechanical injury and damage from water, steam or oil YES, if situated near unprotected

woodwork or other combustible material, state distance of same horizontally from or vertically above the switchboards

are they constructed wholly of durable, non-ignitable non-absorbent materials YES, is all insulation of high dielectric strength and of

permanently high insulation resistance YES, if semi-insulating material is used, are all conducting parts insulated from the slab

with mica or micanite or other non-hygroscopic insulating material, and the slab similarly insulated from its framework YES

and is the frame effectively earthed YES Are the fittings as per Rule regarding: - spacing or shielding of live parts

YES, accessibility of all parts YES, absence of fuses on back of board YES, proportion of omnibus

bars YES, individual fuses to voltmeter, pilot or earth lamp YES, connections of switches YES

Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches

DOUBLE POLE SWITCH & FUSE FOR MAIN GENERATOR & EACH OUTGOING CIRCUIT ALL

GASTIGHT.

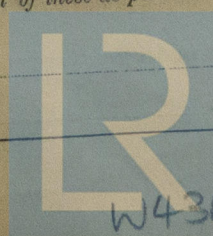
Instruments on main switchboard 1 ammeters 1 voltmeters synchronising device for paralleling purposes.

Earth Testing, state what means are provided at the main switchboard for indicating the state of the insulation of the system

EARTH, LAMPS SWITCHES & FUSES YES

Switches, Circuit Breakers and Fusible Cut-outs, do these comply with the requirements of the Rules YES

Joint Boxes Section and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule YES



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Cables: Single, twin, concentric, or multicore SINGLE are the cables insulated and protected as per Tables IV or V of the Rules YES
Fall of Pressure, state maximum between bus bars and any point of the installation under maximum load 5.2 VOLTS
Cable Sockets and other connections, are the ends of all cables having a sectional area of 0.04 square inch and above provided with soldering sockets YES

Paper Insulated Cables. If cables are paper covered, is the dielectric at the exposed ends of the conductor protected from moisture by being suitably sealed with insulating compound YES

Cable Runs, are the cables fixed as far as possible in accessible positions not exposed to drip or accumulation of water or oil, or to high temperature from boilers, steam pipes, uptakes or other hot objects, or to avoidable risk of mechanical damage YES

Support and Protection of Cables, state how the cables are supported and protected LEAD COVERED & BRAIDED SECURED WITH BRASS

Clips in Accommodation. LEAD COVERED ARMoured & BRAIDED RUN IN GALVANISED W.I PIPE IN ENGINE ROOM
MAINS LEAD IN GENE. W.I. PIPE ALONG FORE & AFT GANGWAY.
If cables are run in wood casings, are the casings and caps secured by screws YES, are the cap screws of brass YES, are the cables run in separate grooves YES. If armoured and lead covered cables are secured by metal clips, are the clips spaced as per Table VIII YES

Refrigerated Chambers, if lights are fitted, are the cables and fittings in accordance with the special requirements YES

Joints in Cables, state if any, and how made, insulated, and protected NONE MADE

Watertight Glands and Deck Tubes, are all cables passing through decks and watertight bulkheads provided with deck tubes or watertight glands YES

Bushes in Beams and Non-watertight Partitions, where unarmoured cables pass through beams and non-watertight partitions, are the holes efficiently bushed YES state the material of which the bushes are made LEAD OR FIBRE

Earthing Connections, state what earthing connections are fitted and their respective sectional areas YES

are their connections made as per Rule YES

Alternative Lighting, are the groups of lights in the propelling machinery space arranged as per Rule YES

Emergency Supply, state position and method of control of the emergency supply and how the generator is driven YES

Navigation Lamps, are these separately wired YES, controlled by separate switch and separate fuses YES, are the fuses double pole YES, are the switches and fuses grouped in a position accessible only to the officers on watch YES

has each navigation lamp an automatic indicator as per Rule YES

Secondary Batteries, are they constructed and fitted as per Rule YES

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, watertight YES, are any fittings placed in spaces in which goods are liable to be stacked in close proximity to them; if so, how are they protected YES

are any fittings placed in spaces where inflammable or explosive dust or gases are liable to be present, if so, how are they protected YES

PUMP ROOMS. SPECIAL GASLIGHT PUMP ROOM FITTINGS, YES, how are the cables led IN GASLIGHT TUBING, OUTSIDE OF PUMP ROOM.

where are the controlling switches situated TOTALLY OUTSIDE SPACE - IN ACCOMMODATION.

Searchlight Lamps, No. of YES, whether fixed or portable YES, are their fittings as per Rule YES

Are Lamps, other than searchlight lamps, No. of YES, are their live parts insulated from the frame or case YES, are their fittings as per Rule YES

Motors, are their working parts readily accessible YES, are the coils self-contained and readily removable for replacement YES

are the brushes, brush holders, terminals and lubricating arrangements as per Rule YES, are the motors placed in well-ventilated compartments in which inflammable gases cannot accumulate and clear of all inflammable material YES

are they protected from mechanical injury and damage from water, steam or oil YES, are their axes of rotation fore and aft YES, if situated near unprotected woodwork or other combustible material, are the motors of the totally enclosed, pipe ventilated, forced draught, drip or flame proof type YES, if not of this type, state distance of the combustible material horizontally or vertically above the motors YES and YES

Control Gear and Resistances, are the generator field and motor speed regulators, starters and controllers constructed and fitted as per Rule YES

Lightning Conductors, where lightning conductors are required, are these fitted as per Rule YES

Ships carrying Oil having a Flash Point less than 150° F. Have the special requirements of the Rules been complied with regarding switches, joint boxes, section and distribution boards, protection of cables, method of distribution, lead of cables, lights and fittings YES

If portable lamps for use in dangerous spaces are supplied, are they of a type approved by the Home Office YES

PARTICULARS OF GENERATING PLANT.

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	15	110	137	320	STEAM ENGINE		
AUXILIARY								
EMERGENCY								
ROTARY TRANSFORMER								

GENERATOR, LIGHTING AND HEATING CONDUCTORS.

DESCRIPTION.	CONDUCTORS.		COMPOSITION OF STRAND.		TOTAL MAXIMUM CURRENT. AMPERES.		Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
	No. per Pole.	Total Effective Area per Pole Sq. Ins.	No.	Diameter.	In Circuit.	Rule.			
MAIN GENERATOR	1	15	37	072	137	152	60	V.I.R.	L.C.A. & B.
EQUALISER CONNECTIONS									
AUXILIARY GENERATOR									
EMERGENCY GENERATOR									
ROTARY TRANSFORMER									
ENGINE ROOM	1	007	7	036	117	24	48	V.I.R.	L.C.A. & B.
BOILER ROOM									
AUXILIARY SWITCHBOARDS									
ENGINEERS ACCOMMODATION	1	007	7	036	10	24	105	V.I.R.	L.C.A. & B.
NAVIGATION	1	007	7	036	5.1	24	645	V.I.R.	L.C.A. & B.
WIRELESS	1	0145	7	052	35	37	555	V.I.R.	L.C.A. & B.
MIDSHIP ACCOMMODATION	1	06	13	064	29.1	83	603	V.I.R.	L.C.A. & B.
PUMP ROOM	1	007	7	036	3.0	24	636	V.I.R.	L.C.A. & B.
ACCOMMODATION									
WIRELESS									
SEARCHLIGHT	1	002	3	029	36	7.8	400	V.I.R.	L.C.A. & B.
MASTHEAD LIGHT	1	002	3	029	36	7.8	40	V.I.R.	L.C.A. & B.
SIDE LIGHTS	1	002	3	029	18	7.8	30	V.I.R.	L.C.A. & B.
COMPASS LIGHTS									
POOP LIGHTS									
CARGO LIGHTS									
ARC LAMPS									
HEATERS									

MOTOR CONDUCTORS.

DESCRIPTION.	No. of Motors.	CONDUCTORS.		COMPOSITION OF STRAND.		TOTAL MAXIMUM CURRENT. AMPERES.		Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
		No. Per Pole.	Total Effective Area per Pole Sq. Ins.	No.	Diameter.	In Circuit.	Rule.			
BALLAST PUMP										
MAIN BILGE LINE PUMPS										
GENERAL SERVICE PUMP										
EMERGENCY BILGE PUMP										
SANITARY PUMP										
CIRC. SEA WATER PUMPS										
CIRC. FRESH WATER PUMPS										
AIR COMPRESSOR										
FRESH WATER PUMP										
ENGINE TURNING GEAR										
ENGINE REVERSING GEAR										
LUBRICATING OIL PUMPS										
OIL FUEL TRANSFER PUMP										
WINDLASS										
WINCHES, FORWARD										
WINCHES, AFT										
STEERING GEAR										
(a) MOTOR GENERATOR										
(b) MAIN MOTOR										
WORKSHOP MOTOR										
VENTILATING FANS										

All Conductors are of annealed copper conforming to British Standard Specification No. 7.

The Insulated Conductors are guaranteed to withstand the immersion and resistance tests specified in the Rules.

The foregoing is a correct description.

p. pro. THE SUNDERLAND FORGE & ENGINEERING CO. LTD.,

Electrical Engineers.

Date 26.2.35.

COMPASSES.

Distance between electric generators or motors and standard compass 240 FEET

Distance between electric generators or motors and steering compass 248 FEET

The nearest cables to the compasses are as follows:—

A cable carrying 23 Amperes 10 feet from standard compass 10 feet from steering compass.

A cable carrying 23 Amperes 10 feet from standard compass LED INTO feet from steering compass.

A cable carrying 23 Amperes LED INTO feet from standard compass 10 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 1/2 degrees on any course in the case of the standard

compass, and 1/2 degrees on any course in the case of the steering compass.

THE GREENOCK DOCKYARD CO. LTD.

Secretary

Builder's Signature.

Date 26 March 1935

Is this installation a duplicate of a previous case Yes If so, state name of vessel

"Valdemora"

General Remarks (State quality of workmanship, opinions as to class, &c.)

This installation has been fitted

on board under special survey, tested under full working conditions and found satisfactory. The materials and workmanship were found to be good and sound

Noted

L.Y.

28/3/35

[Signature]

23/3/35

Total Capacity of Generators 15 Kilowatts.

The amount of Fee ... £ 15 : -

Travelling Expenses (if any) £ 6/6 : 11.4.35

Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 26 MAR 1935

Assigned SEE ACCOMPANYING MACHINERY REPORT.



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