

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 27 DEC 1933

Date of writing Report 15/12/1933 When handed in at Local Office Dec 23 1933 Port of TRIESTE

No. in Survey held at Monfalcone Date, First Survey Sep 12 Last Survey Dec 7 1933
Reg. Book. 30569 on the T.S. M/S Marguerite Trivalcy (Number of Visits... 1)

Tons { Gross 12505
Net 5245

Built at Monfalcone By whom built Cant. Chim. dell'Adr. Yard No. 251 When built 1933

Owners Societe Auxiliaire des Transports Port belonging to Havre

Electric Light Installation fitted by A. C. G. Projeun Contract No. - When fitted 1933

Is the Vessel fitted for carrying Petroleum in bulk yes

System of Distribution Two wire
Pressure of supply for Lighting 115 volts, Heating - volts, Power 115 volts.

Direct or Alternating Current, Lighting direct Power direct
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 no, is an adjustable regulating resistance fitted in series with each shunt field yes

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 C. R. platform
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
Earthing, are the bedplates and frames of the generating plant efficiently earthed yes are the prime movers and their respective generators in metallic contact yes

Main Switch Boards, where placed near generators
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 - and -
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 mica-nite 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

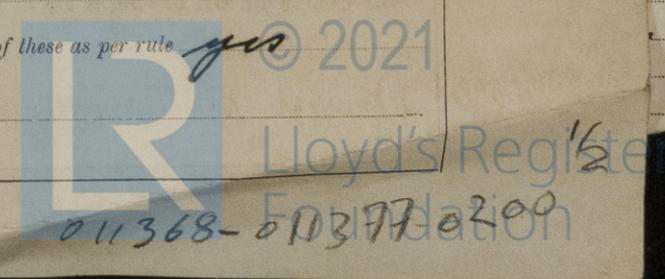
Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches double pole
single switches for all main circuits and double pole wrap switch for all terminals circuits

Instruments on main switchboard 2 ammeters 2 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 Lamps

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



Cables: Single, twin, concentric, or multicore *single twin* 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 *2 V.*

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 —

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 *supported by clips. Armoured with steel ribbons*

If cables are run in wood casings, are the casings and caps secured by screws —, are the cap screws of brass —, are the cables run in separate grooves —. 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 —

Joints in Cables, state if any, and how made, insulated, and protected *in gas tight junction boxes*

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 — state the material of which the bushes are made —

Earthing Connections, state what earthing connections are fitted and their respective sectional areas *none*

are their connections made as per Rule —

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 *none*

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 (for internal communication)*

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, watertight *steel conduits*, 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

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. Gas tight lamps*

how are the cables led *Lead covered and armoured by steel ribbons and further braided with impregnated jute*

where are the controlling switches situated *Outside the space*

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

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

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 *fully enclosed*, if not of this type, state distance of the combustible material horizontally or vertically above the motors — and —

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 —

PARTICULARS OF GENERATING PLANT.

DESCRIPTION OF GENERATOR.	No. of	RATED AT			DRIVEN BY	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE.	
		Kilowatts.	Volts.	Ampères.		Fuel Used.	Flash Point of Fuel.
MAIN	2	20	115	174	375	Steam engine	
AUXILIARY							
EMERGENCY							
ROTARY TRANSFORMER							

GENERATOR, LIGHTING AND HEATING CONDUCTORS.

DESCRIPTION.	No. per Pole.	CONDUCTORS.		COMPOSITION OF STRAND.		TOTAL MAXIMUM CURRENT AMPERES.		Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
		Total Effective Area per Pole Sq. Ins.	No.	Diameter.	In Circuit.	Rule.				
MAIN GENERATOR	1	120	61	1.6	174	175	90	rubber lead cov. 2 Ann.		
EQUALISER CONNECTIONS										
AUXILIARY GENERATOR										
EMERGENCY GENERATOR										
ROTARY TRANSFORMER MOTOR GENERATOR										
ENGINE ROOM	1	50	19	8	50	100		Barc Bar	(the is on the drittel board see sketch 5/1/34)	
BOILER ROOM										
AUXILIARY SWITCHBOARDS										
ACCOMMODATION										
5-YN, VIII, IX	1	70	19	2.2	125	125	900	rubber lead cov. 2 Ann.		
6-II, I	1	16	16	1.12	31	50	180	" " " "		
Terminal Circuits from Aux. Sv. Bd.	1	1.2	1	1.25	4 to 6 inch	8		" " " "		
WIRELESS	1	16	16	1.12	16	50	300	" " " "		
SEARCHLIGHT	1	4	7	0.9	12	24	300	" " " "		
MASTHEAD LIGHT	1	2.5	7	0.7	0.5	16	550	" " " "		
SIDE LIGHTS	1	1.2	1	1.25	0.3	8	350	" " " "		
COMPASS LIGHTS	1	4	7	0.9	7	20	350	" " " "		
POOP LIGHTS	1	2.5	7	0.7	0.3	16	120	" " " "		
CARGO LIGHTS	1	4	7	0.7	2	20	450	" " " "		
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 PUMPS SBV	3	1	16	19	1.0	48	53	90	rubber lead cov. 2 Ann.	
EMERGENCY BILGE PUMP										
SANITARY PUMP										
CIRC. SEA WATER PUMPS										
CIRC. FRESH WATER PUMPS										
Air COMPRESSOR	1	1	25	19	1.3	60	64	50	" " " "	
FRESH WATER PUMP										
ENGINE TURNING GEAR XX	2	1	35	19	1.55	85	87	80	" " " "	
ENGINE REVERSING GEAR										
LUBRICATING OIL PUMPS										
OIL FUEL TRANSFER PUMP										
WINDLASS										
WINCHES, FORWARD										
WINCHES, AFT										
STEERING GEAR										
(a) MOTOR	1	1	4	7	0.9	16	24	90	" " " "	
(b) Motor	"	"	"	"	"	"	"	"	" " " "	
WORKSHOP MOTOR X SBV	5	1	50	19	1.85	100	115	80	" " " "	
VENTILATING FANS										
Galley SB III	3	1	70	37	1.9	120	125	100	" " " "	
O.F. Burning Arr. SBV	5	1	70	37	1.9	105	125	60	" " " "	
Shore Connection	-	1	120	61	1.6	174	175	-	" " " "	

X = 1 h. rating
XX = 1/2 h. rating

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.

Cantieri Riuniti Dell'Adria

CANTIERE MONFALCONE

Electrical Engineers.

Date

COMPASSES.

Distance between electric generators or motors and standard compass } 450'

Distance between electric generators or motors and steering compass

The nearest cables to the compasses are as follows:— Gyroscopic 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.

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.

The maximum deviation due to electric currents was found to be *none* degrees on course in the case of the standard compass, and degrees on course in the case of the steering compass.

Cantieri Riuniti Dell'Adria

CANTIERE MONFALCONE

Builder's Signature.

Date

Is this installation a duplicate of a previous case *yes* If so, state name of vessel *P.L. Hogue & Corilla Norden*

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

This installation has been made in accordance with the Rules and approved plan. It has been tested under working condition and found satisfactory. The test as per Section 6 has been satisfactorily carried out.

It is submitted that this vessel is eligible for THE RECORD.

elec. dept

2/11

30/1/33

Total Capacity of Generators *40* Kilowatts.

The amount of Fee ... £ *25: 0: 0* When applied for, *27.12.1933*

Travelling Expenses (if any) £ *10: 1: 34* When received, *31/1/34*

R. Luparic
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

JAN 8 1934

Assigned

elec. dept

1m, 9, 30.—Transfer. (The Surveyors are requested not to write on or below the space for Committee's Minutes.)



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