

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 15 JUL 1929

Date of writing Report 17th June 1929 When handed in at Local Office 19 Port of HAMBURG

No. in Survey held at HAMBURG Date, First Survey 7.5.29 Last Survey 15th June 1929
Reg. Book. (Number of Visits 6)

on the Steek Sc VENDÉMIAIRE Tons { Gross 9117
Net 6731

Built at HAMBURG By whom built DEUTSCHE WERFT A.G. Yard No. 119 When built 1929

Owners COMPAGNIE NATIONALE DE NAVIGATION Port belonging to ROUEN

Electric Light Installation fitted by DEUTSCHE WERFT A.G. Contract No. When fitted 1929

System of Distribution Two wire system

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

Position of Generators Engine room starboard side, Are the lubricating arrangements of the generators as per Rule 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

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 Engine room starboard side

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 marble, is all insulation of high dielectric strength and of permanently high insulation resistance

if semi-insulating material is used, are all conducting parts insulated from the slab with mica or micaite 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 For the generator

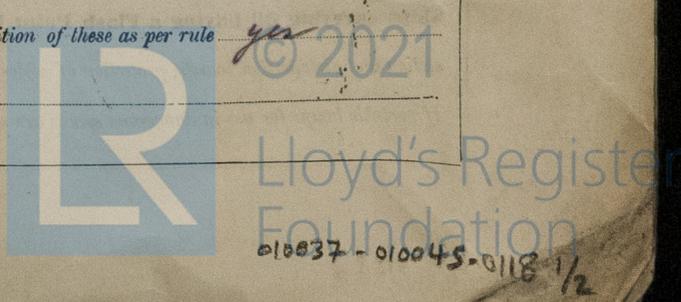
a fuse on each pole and a double-pole linked switch. For each outgoing circuit a fuse on each pole and a single pole switch on one pole

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 by 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 are the cables insulated and protected as per Tables IV or V of the Rules yes *The German standards have been applied*

Fall of Pressure, state maximum between bus bars and any point of the installation under maximum load 1 volt

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 armoured cables, in Pump Room
gas tight tubing

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 water tight joint 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 armoured cables state the material of which the bushes are made yes

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, gas tight fittings
lamps protected by hose gas boxes, how are the cables led gas tight tubing

where are the controlling switches situated in bridge deck

Searchlight Lamps, No. of 1, whether fixed or portable yes, are their fittings as per Rule yes

Arc Lamps, other than searchlight lamps, No. of 1, 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 none, due mark

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 none

PARTICULARS OF GENERATING PLANT.

DESCRIPTION OF GENERATOR.	No. of	RATED AT				DRIVEN BY	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE.	
		Kilowatts.	Volts.	Amps.	Revs. per Min.		Fuel Used.	Flash Point of Fuel.
MAIN	1	10	115	90	400	one cylinder Heane		
AUXILIARY						engine		
EMERGENCY								
ROTARY TRANSFORMER								

LIGHTING AND HEATING CONDUCTORS.

Ref. No.	DESCRIPTION.	No. of Conductors.	Effective Area of each Conductor. Sq. Ins.	COMPOSITION OF STRAND.		Total Maximum Current. Amps.	Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
				No.	Diameter.				
	MAIN GENERATOR	2	50	19	1.85	100	10		
	EQUALISER CONNECTIONS								
	AUXILIARY GENERATOR								
	EMERGENCY GENERATOR								
	ROTARY TRANSFORMER								
	AUXILIARY SWITCHBOARDS								
	ENGINE ROOM		1.5	1	1.4	8	12		
	BOILER ROOM								
	ACCOMMODATION								
	To pump deck	2	4	19	0.52	20	40		
	To mid ship	2	6	19	0.64	30	120		
	To mid ship	2	2.5	1	1.8	10	126		
	WIRELESS	2	10	19	0.82	37	175		
	SEARCHLIGHT								
	MASTHEAD LIGHT	2	1.5	1	1.4	4	126		
	SIDE LIGHTS	2	1.5	1	1.4	4	25		
	COMPASS LIGHTS	2	1.5	1	1.4	4	25		
	POOP LIGHTS	2	2.5	1	1.8	8	70		
	CARGO LIGHTS	2	2.5	1	1.8	8	70		
	ARC LAMPS								
	HEATERS								

MOTOR CONDUCTORS.

Ref. No.	DESCRIPTION.	No. of Motors.	Effective Area of each Conductor. Sq. Ins.	COMPOSITION OF STRAND.		Total Maximum Current. Amps.	Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
				No.	Diameter.				
	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	2	2.5	1	1.8	10	32		
	VENTILATING FANS	2	2.5	1	1.8	10	27		

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.

The Builders are the Electrical Engineers. Date 15.7.29

COMPASSES.

Distance between electric generators or motors and standard compass 80 mtrs
 Distance between electric generators or motors and steering compass 80 mtrs
 The nearest cables to the compasses are as follows:—
 A cable carrying 0.5 Ampères close to feet from standard compass close to feet from steering compass.
 A cable carrying 0.5 Ampères " feet from standard compass " feet from steering compass.
 A cable carrying 0.5 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 with
 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 nil degrees on " course in the case of the standard compass, and " degrees on " course in the case of the steering compass.

DEUTSCHE WERFT
 AKTIENGESELLSCHAFT

X Paul Graber

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, opinions as to class, &c. Workmanship and material)

of this electric installation are of good quality. All the conductors are of the "German Standards". The Society's Rules respecting conductors have been applied generally. The installation has been fitted in accordance with the approved plan, the Secretary's letter and otherwise in conformity with the requirements of the Rules under Special Survey and is eligible in my opinion for record of "Electric Light."

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

J. [Signature]
8/7/29

Total Capacity of Generators 10 Kilowatts.

The amount of Fee £ 10 : - : 7.7.19.29
 Travelling Expenses (if any) £ - : - : 23.9.29

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

Im. 228.—Transfer. (The Surveyors are requested not to write on or below the space for Committee's Minute.)

Committee's Minute TUE. 23 JUL 1929
 Assigned Elec Lt. TUE. 20 AUG 1929

