

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report 19... When handed in at Local Office 12th Oct. 1926 Port of DUNKIRK Received at London Office 14 Oct. 1926

No. in Survey held at DUNKIRK Date, First Survey 23rd June 16 Last Survey 29th Sept. 1926
Reg. Book. 79744 on the M.V. "PAUL EMILE JAVARY" (Number of Visits... 11)

Built at Dunkirk By whom built "Chantier de France" Yard No. 137 Tons { Gross 2471 Net 1452
Owners Societe Anonyme de Pescaee & Armement port belonging to Dunkirk When built 1926
Electric Light Installation fitted by "Chantier de France" Contract No. ✓ When fitted 1926

System of Distribution Two wire Continuous Current

Pressure of supply for Lighting 220 volts, Heating None volts, Power 220 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 ✓

Generators, do they comply with the requirements regarding overload ✓, are they compound wound ✓

are they over compounded 5 per cent. ✓, 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 and clearly marked ✓, are they so spaced or shielded that they cannot be accidentally earthed, or short circuited ✓

Position of Generators On Lower Engine platform Are the lubricating arrangements of the generators as per Rule ✓

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

if situated near unprotected woodwork or other combustible material, state distance of same horizontally from or vertically above the generators No woodwork ✓ and ✓, are the generators protected from mechanical injury and damage from water, steam or oil ✓

are their axis of rotation fore and aft ✓

Earthing, are the bedplates and frames of the generating plant efficiently earthed ✓ are the prime movers and their respective generators in metallic contact ✓

Main Switch Boards, where placed Lower Engine platform, forward End, front 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 Same Compartment

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

are they protected from mechanical injury and damage from water, steam or oil ✓, if situated near unprotected woodwork or other combustible material, state distance of same horizontally from or vertically above the switchboards No woodwork and ✓

are they constructed wholly of durable, incombustible non-absorbent materials ✓, is all insulation of high dielectric strength and of permanently high insulation resistance Marble

insulated from the slab with mica or micamite and the slab similarly insulated from its framework ✓, and is the frame effectively earthed ✓

Are the following fittings as per Rule, viz. :- spacing or shielding of live parts ✓, accessibility of all parts ✓, absence of fuses on back of board ✓, proportion of omnibus bars 50 x 3 1/2 Double

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

Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches Two Sets of 3 bars

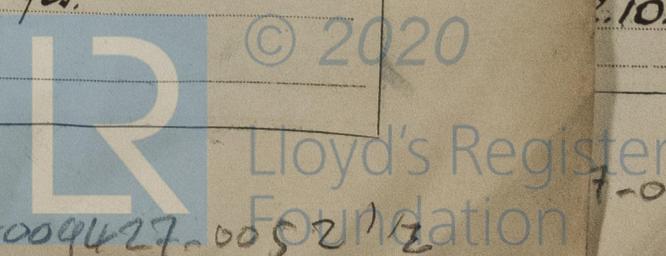
one for Lighting, one for power. Dynamot Connected to one or the other through 3 pole, 2 way switches. Automatic cut out for Each Dynamo.

Instruments on main switchboard 3 ammeters 3 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, Circuit Breakers and Fusible Cut-outs, do these comply with the requirements of the Rules ✓

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



009418-009427-0052

Insulation of Cables, state type of cables, single or twin *twin* are the cables insulated and protected as per Tables III or IV of the Rules *Yes*

Fall of Pressure, state maximum between bus bars and any point of the installation under maximum load *5. Volts.*

Cable Sockets and other connections, are the ends of all cables having a sectional area of 0.007 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 *None.*

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: *In Cabins Cased in wood, Elsewhere lead covered and armoured, supported by brass clips spaced 20 and 25 cm.*

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 *No*. If armoured and lead covered cables are secured by metal clips, are the clips spaced as per Table VI *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 *No joints in cables.*

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 Positions, 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 *Wood or Lead.*

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. Groups 1, 2 and 3 lamps.*

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 *Chart Room*

has each navigation lamp an automatic indicator as per Rule *Yes*, are separate screens provided for the use of oil and electric side lights *Yes*, are separate oil lanterns provided for the mast head lights and side lights *Yes*

Fittings, are all fittings on weather decks, ~~in engine rooms~~ 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 *No fittings. The wirings for firecastle lamps are led under the deck beams along the hatchways & protected by the [guides].*

are any fittings placed in spaces where inflammable or explosive dust or gases are liable to be present, if so, how are they protected *No*, how are the cables led *Yes*

where are the controlling switches situated *on the main switchboard with cut outs in passage way on main deck.*

Searchlight Lamps, No. of *None*, whether fixed or portable *Yes*, are their fittings as per Rule *Yes*

Arc Lamps, other than searchlight lamps, No. of *None*, 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 Bottom platform*

are they protected from mechanical injury and damage from water, steam or oil *Yes*, are their axis of rotation fore and aft *Yes except Steering Gear.*

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 *No woodwork*, 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 as per Rule *Yes*

Lightning Conductors, where lightning conductors are required, are these fitted as per Rule *One on each mast. 25 x 5/8 = 125% □*

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 *Flash point of Oil stated to be 97° C*

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.

Table with columns: DESCRIPTION OF GENERATOR, No. of, Kilowatts, Volts, Amperes, Revs. per Min., DRIVEN BY, WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE. Includes MAIN, AUXILIARY, EMERGENCY, and ROTARY TRANSFORMER.

LIGHTING AND HEATING CONDUCTORS.

Table with columns: Ref. No., DESCRIPTION, No. of Conductors, Effective Area of each Conductor, COMPOSITION OF STRAND, Total Maximum Current, Approximate Length, Insulated with, HOW PROTECTED. Lists various lighting and heating fixtures like MAIN GENERATOR, FEEDING BOX, etc.

MOTOR CONDUCTORS.

Table with columns: Ref. No., DESCRIPTION, No. of Motors, Effective Area of each Conductor, COMPOSITION OF STRAND, Total Maximum Current, Approximate Length, Insulated with, HOW PROTECTED. Lists various pumps and motors like BALLAST PUMP, MAIN BILGE LINE PUMPS, etc.

Please See: Schema General de distribution 137, EL. 3015. Plan. Installation Electrique 137, EL. 195, and Rote de Bites de derivation, 12.10.26 forwarded herewith & attached to list & plan approved 7. 4. 26

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.

S^m DES ATELIERS & CHANTIERS DE FRANCE

Ball...

Electrical Engineers.

Date 12 Octobre 1926

COMPASSES.

Distance between electric generators or motors and standard compass 14^m 80^{cm}

Distance between electric generators or motors and steering compass 13^m 50^{cm}

The nearest cables to the compasses are as follows:—

A cable carrying 0.33 Ampères fitted in feet from standard compass feet from steering compass.

A cable carrying 0.33 Ampères feet from standard compass fitted in feet from steering compass.

A cable carrying 0.33 Ampères feet from standard compass fitted in feet from steering compass. aft

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 Nil degrees on all course in the case of the standard compass, and Nil degrees on all course in the case of the steering compass.

S^m DES ATELIERS & CHANTIERS DE FRANCE

LE DIRECTEUR

Ball...

Builder's Signature.

Date 12 octobre 1926

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. This installation has been fitted on)

board in accordance with the requirements of the Rules for Electric Fittings, although there is a slight deviation from the approved plans and London letter 'E' of 7th April 1926 the material and workmanship are good, worthy in my opinion to receive the favourable consideration of the Committee. The approved and modified plans are forwarded herewith.

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

JWD
15/10/26

Total Capacity of Generators 99 Kilowatts

The amount of Fee ... £5449. When applied for, 4.10.26

Travelling Expenses (if any) ... When received, 5/11/26

John Lighton
Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUES. 19 OCT 1926

Assigned

Im. 8. 22.—Transfer. (The Surveyors are requested not to write on or below the space for Committee's Minute.)