

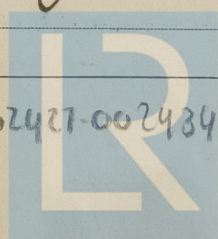
REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

5 AUG 1926

Date of writing Report 19 When handed in at Local Office 19 Port of London
 No. in Survey held at Faversham Date, First Survey June 2nd Last Survey July 19th 1926
 Reg. Book. 75608 on the Keel M/V "LIDO" (Number of Visits Two)
 Built at Faversham By whom built James Pollock & Co. Yard No. 1194 When built 1926
 Owners Union Lightship Co. Port belonging to London
 Electric Light Installation fitted by Telford, Grier & Mackay Ltd. Contract No. When fitted 1926

System of Distribution Two wire . Two Conductors System
 Pressure of supply for Lighting 110 volts, Heating 110 volts, Power — volts.
 Direct or Alternating Current, Lighting Direct 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 ✓
 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 Yes, are they so spaced or shielded that they cannot be accidentally earthed, or short circuited Yes Are the lubricating arrangements of the generators as per Rule Yes
 Position of Generators In Engine Room, 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 No woodwork and —, are the generators protected from mechanical injury and damage from water, steam or oil Yes
 are their axis 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 On Bulkhead close to 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 None and —, are they constructed wholly of durable, incombustible 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 connected to one pole insulated from the slab with mica or micanite and the slab similarly insulated from its framework Yes, and is the frame effectively earthed Yes Are the following fittings as per Rule, viz.:— 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 and Double Pole Fuses for Generator
Double Pole Switch and Double Pole Fuses for each outgoing circuit
 Instruments on main switchboard one ammeters one 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 Two lamps on switchboard with switches and earth connection
 Switches, Circuit Breakers and Fusible Cut-outs, do these comply with the requirements of the Rules Yes
 Section and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule Yes



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Insulation of Cables, state type of cables, single or twin single 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 3 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 Lead covered wire in galvanised tubes or lead covered cables clipped to Decks etc.

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 secured as per Table VI —

Refrigerated Chambers, if lights are fitted, are the cables and fittings in accordance with the special requirements None

Joints in Cables, state if any, and how made, insulated, and protected No Joints

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 Lead

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

—, 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, 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 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 None so placed.

are any fittings placed in spaces where inflammable or explosive dust or gases are liable to be present, if so, how are they protected None

—, how are the cables led —

where are the controlling switches situated —

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

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 —, are the coils self-contained and readily removable for replacement —

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

are they protected from mechanical injury and damage from water, steam or oil — are their axis of rotation fore and aft —

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 —, 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 as per Rule —

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

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 | | | Revs. per Min. | DRIVEN BY. | WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE. | | |
| | | Kilowatts. | Volts. | Amperes. | | | Fuel Used. | Flash Point of Fuel. | |
| MAIN | 1 | 3 1/2 | 110 | | 550 | 6 BHP Gardner single cyl. Eng. Type 34T. | Gas Oil | | |
| AUXILIARY | | | | | | | | | |
| EMERGENCY | | | | | | | | | |
| ROTARY TRANSFORMER | | | | | | | | | |

75608 Steel 110

| LIGHTING AND HEATING CONDUCTORS. | | | | | | | | | |
|----------------------------------|------------------------|--------------------|--|------------------------|-----------|---------------------------------|--|----------------|----------------|
| Ref. No. | DESCRIPTION. | No. of Conductors. | Effective Area of each Conductor. Sq. Ins. | COMPOSITION OF STRAND. | | Total Maximum Current. Amperes. | Approximate Length. (Lead and Return.) Feet. | Insulated with | HOW PROTECTED. |
| | | | | No. | Diameter. | | | | |
| | MAIN GENERATOR | 2 | .02214 | 7 | .064 | 33 | 18 | VIR | Lead Covered |
| | AUXILIARY GENERATOR | | | | | | | | |
| | EMERGENCY GENERATOR | | | | | | | | |
| | ROTARY TRANSFORMER | | | | | | | | |
| | AUXILIARY SWITCHBOARDS | | | | | | | | |
| | ENGINE ROOM | 2 | .0029 | 3 | .036 | 2 | 40 | VIR | Lead Covered |
| | BOILER ROOM | 110 | | | | 110 | | | |
| | WIRELESS | | | | | | | | |
| | SEARCHLIGHT | 2 | .0019 | 3 | .029 | 2 | 60 | VIR | Lead Covered |
| | MASTHEAD LIGHT | 2 | .0019 | 3 | .029 | 2 | 40 | Do. | Yes |
| | SIDE LIGHTS | 1 | .0019 | 3 | .029 | .25 | 18 | Do. | Yes |
| | COMPASS LIGHTS | | | | | | | | |
| | POOP LIGHTS | | | | | | | | |
| | CARGO LIGHTS | | | | | | | | Yes. |
| | ARC LAMPS | 2 | .0029 | 3 | .036 | 3 | 40 | VIR | |
| | HEATERS | 2 | .0045 | 7 | .029 | 10 | 30 | Do. | |

| MOTOR CONDUCTORS. | | | | | | | | | |
|-------------------|-------------------------|----------------|--|------------------------|-----------|---------------------------------|--|----------------|----------------|
| Ref. No. | DESCRIPTION. | No. of Motors. | Effective Area of each Conductor. Sq. Ins. | COMPOSITION OF STRAND. | | Total Maximum Current. Amperes. | 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 | | | | | | | | |
| | WORKSHOP MOTOR | | | | | | | | |
| | VENTILATING FANS | | | | | | | | |

Double Pole Switch and Double Pole fuses in each lighting circuit.

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Double Pole Switch and Double Pole fuses in each lighting circuit.

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.

TELFORD, GRIER AND MACKAY LTD Electrical Engineers.

Date 3/8/26

Dulackay

COMPASSES.

Distance between electric generators or motors and standard compass

20 feet

Distance between electric generators or motors and steering compass

20 feet

The nearest cables to the compasses are as follows:—

A cable carrying 2 Ampères 6 feet from standard compass 6 feet from steering compass.

A cable carrying 10 Ampères 18 feet from standard compass 18 feet from steering compass.

A cable carrying 25 Ampères inside feet from standard compass inside 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 Nil degrees on course in the case of the standard

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

and on behalf of
JAMES POLLOCK SONS & Co., Ltd.

J. Pollock

Builder's Signature.

Date 3/8/26

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 in accordance with the Rules and the workmanship is good; it has been examined under working conditions and found satisfactory and, is therefore, in my opinion, eligible for the record of ELEC. LIGHT.

Elec Light.

6/8/26

Total Capacity of Generators 3 1/2 Kilowatts

The amount of Fee ... £ 3 : 10 :

When applied for,
5. 8. 19. 26

Travelling Expenses (if any) £

✓

When received,
6. 8. 19. 26

FRI. 6 AUG 1926

Committee's Minute

Assigned

Elec. Light

Robert M. R. Palmer

Surveyor to Lloyd's Register of Shipping.

Im. 9. 22.—Transfer.
(The Surveyors are requested not to write on or below the space for Committee's Minute.)



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