

# REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London

8 AUG 1924

Date of writing Report 10 When handed in at Local Office - 7 AUG 1924 Port of SUNDERLAND.

No. in Survey held at SUNDERLAND.  
Reg. Book.Date, First Survey 3<sup>rd</sup> July Last Survey 22 July 1924  
(Number of Visits.....)

on the Jamworth

Tons { Gross 1332  
Net 711

Built at Sunderland

By whom built S. P. Austin &amp; Son Ltd

Yard No. 306

When built 1924

Owners Robert Stanley Shipping Co Ltd Port belonging to Newcastle

Electric Light Installation fitted by Sunderland Forge &amp; Engineering Co Ltd Contract No. When fitted 1924

System of Distribution Two wire

Pressure of supply for Lighting 110 volts, Heating none volts, Power none volts.

Direct or Alternating Current, Lighting Direct Power none

If alternating current system, state frequency of periods per second none

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 overload Yes, are they compound wound Yes

are they over compounded 5 per cent. Yes, if not compound wound state distance between each generator only one fitted

Where more than one generator is fitted are they arranged to run in parallel only one fitted, is an adjustable regulating resistance fitted in series with each shunt field no

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 Engine Room, Bottom 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 not so situated 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 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 only one fitted

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 not so situated

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

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 fuses for Generator. Single Pole Switches and Double Pole fuses for Outgoing Circuits

Instruments on main switchboard 1 ammeters 1 voltmeters no. 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 Yes.

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



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Single? *Yes* are the cables insulated and protected as per Tables III or IV of the Rules *Yes*

Insulation of Cables, state type of cables, single or twin *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 fitted*

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, Armoured & Braided Cables  
Clipped to Beams.*

If cables are run in wood casings, are the casings and caps secured by screws *none*, are the cap screws of brass *none*, are the cables run in separate grooves *none*. 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 *None*

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 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 *None fitted*

are their connections made as per Rule *none fitted.*

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*

is 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 fitted*

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 fitted*

how are the cables led *none fitted*

are the controlling switches situated *none fitted.*

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

are Lamps, other than searchlight lamps, No. of *None fitted*, are their live parts insulated from the frame or case *None fitted*, are their fittings as per Rule *None fitted*

motors, are their working parts readily accessible *None fitted*, are the coils self-contained and readily removable for replacement *None fitted*

are the brushes, brush holders, terminals and lubricating arrangements as per Rule *None fitted*, are the motors placed in well-ventilated compartments in which inflammable gases cannot accumulate and clear of all inflammable material *None fitted*

are they protected from mechanical injury and damage from water, steam or oil *None fitted* are their axis of rotation fore and aft *None fitted*

situated near unprotected woodwork or other combustible material, are the motors of the totally enclosed, pipe ventilated, forced draught, drip or flame proof type *None fitted*, if not of this type, state distance of the combustible material horizontally or vertically above the motors *None fitted* and *None fitted.*

Control Gear and Resistances, are the generator field and motor speed regulators, starters and controllers constructed as per Rule *None fitted*

Lightning Conductors, where lightning conductors are required, are these fitted as per Rule *None fitted.*

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 *none*

portable lamps for use in dangerous spaces are supplied, are they of a type approved by the Home Office *none.*

[illegible]



24 JUL 24  
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.p.o. THE SUNDERLAND FORGE & ENGINEERING COMPANY LIMITED

Electrical Engineers.

Date 29th July 1924.

Director.

COMPASSES.

Distance between electric generators or motors and standard compass None

Distance between electric generators or motors and steering compass 125 feet

The nearest cables to the compasses are as follows:—

A cable carrying 7.5 Ampères 10 feet from standard compass 10 feet from steering compass.

A cable carrying .55 Ampères Led into 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 yes

The maximum deviation due to electric currents was found to be 0 degrees on each course in the case of the standard compass, and 0 degrees on each course in the case of the steering compass.

FOR S. P. AUSTIN & SON, LIMITED.

Wm D. M. J. M.  
MANAGING DIRECTOR

Builder's Signature.

Date 2<sup>nd</sup> August 1924.

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.       )

The installation has been satisfactorily fitted in the vessel tested and found good.

Total Capacity of Generators 3.5 Kilowatts

The amount of Fee ... £ 5 :

When applied for,  
24 July 1924

Travelling Expenses (if any) £ :

When received,  
26 July 1924 Amv.

S. C. Davis

Surveyor to Lloyd's Register of Shipping.

Committee's Minute       

Assigned       

Im. 22.—Tr. 100.  
(The Surveyors are requested not to write on or below the space for Committee's Minute.)



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