

Rpt. 18.

No. 11548

REPORT ON ELECTRIC FITTINGS

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

Date of writing Report

19

When presented at Local Office

29 5

10 23 Port of

Middlesbrough

No. in

Survey held at Haverton Hill-on-Tees

Date, First Survey

whilz

Last Survey

Building 19

Reg. Book.

on the Steel Screw Steamer "London Merchant"

Tons

Gross

Net

Built at Haverton Hill-on-Tees

By whom built

Furness S/B Co Ltd

Yard No.

19

When built

1923

Owners

Messrs Furness Withy & Co Ltd

Port belonging to

London

Electric Light Installation fitted by Furness Shipbuilding Co Ltd

Contract No.

When fitted

1923

System of Distribution

Double Wire Insulated ✓

Pressure of supply for Lighting

100 ✓

volts, Heating

volts, Power

100

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 overload

yes ✓

are they compound wound

yes ✓

are they over compounded 5 per cent.

Level ✓

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 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

Generator Compartment Port Side Tween Decks

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 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

Near Generators in Generator Compartment, Port Side, Tween Decks

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, 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 micamite 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

D.P. Switch & fuse for each generator, Outgoing Circuit, D.P. Change-Over Switch for connecting each generator alternatively to Bus Bars (Fuses Porcelain K.O. Pattern)

Instruments on main switchboard

2

ammeters

1

volts

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

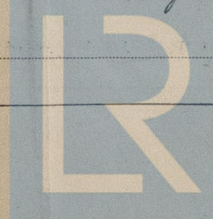
in series & middle point earthed connected to each Bus Bar by means of two 16 c.p. lamps

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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Lloyd's Register Foundation

UK 72-00 92(112)

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.

FURNESS SHIPBUILDING CO. LIMITED

P. S. Glover

Electrical Engineers.

Date 26th May 1923

COMPASSES.

Distance between electric generators or motors and standard compass 140 ft. approx

Distance between electric generators or motors and steering compass 130 ft.

The nearest cables to the compasses are as follows:—

A cable carrying 6 Amperes 3 feet from standard compass feet from steering compass.

A cable carrying 3 Amperes inside feet from standard compass feet from steering compass.

A cable carrying Amperes 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 not up to time that 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.

For FURNESS SHIPBUILDING CO. LIMITED,

Hen. C. Quattrone

Builder's Signature.

Date 26th May 1923

Secretary.

John Commen M. 114812

S.S. Feliciano - Pft. N° 11282

Is this installation a duplicate of a previous case yes If so, state name of vessel S.S. London Commen - Pft. N° 11481

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

This installation has been fitted in accordance with the Rules: is of good materials and workmanship and on completion was examined under full working conditions and found satisfactory

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

W. J. W.
9/7/23

Total Capacity of Generators 27½ Kilowatts

The amount of Fee ... £ 21-5-0 { When applied for, 6-6-19-23
Travelling Expenses (if any) £ : : { When required, 19-23

Wm Morrison

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned