

Rpt. 13.

No. 28876.

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

THE 5 AUG. 1924

Date of writing Report

When handed in at Local Office

- 1 AUG 1924

Port of

SUNDERLAND.

No. in Survey held at SUNDERLAND.

Date, First Survey

1st July

Last Survey

21st July 1924

Reg. Book.

on the S.S. MERVYN

(Number of Visits.....)

Tons

Gross 3402

Net 2066

Built at Sunderland

By whom built R. Thompson & Co.

Yard No. 321

When built 1924

Owners Martyn, Martyn & Co.

Port belonging to

Cardiff

Electric Light Installation fitted by

Messrs. Clarke Chapman & Co.

Contract No.

When fitted

1924

System of Distribution

Boule wire

Pressure of supply for Lighting

150

volts, Heating

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

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

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

Engine room starboard side lower 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

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 Dynamo Engine room

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 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

, 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

4 fuses in dynamo mains, in each outgoing circuit single pole switch & double pole fuses

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

Earth lamps

coupled to earth through double pole switch & fuses

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

R09

deter

1/10

1/10

1/10

W422-0016 1/2



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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.

For Clarke, Chapman & Co., Ltd.

Electrical Engineers.

Date

COMPASSES.

Distance between electric generators or motors and standard compass

20 yds

Distance between electric generators or motors and steering compass

16 yds

The nearest cables to the compasses are as follows:—

A cable carrying .5 Amperes 12 feet from standard compass 6 feet from steering compass.

A cable carrying .5 Amperes 6 feet from standard compass 12 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

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

12 degrees on

course in the case of the standard

compass, and

12 degrees on

all

course in the case of the steering compass.

For ROBERT THOMPSON & SONS LTD.

Builder's Signature.

Date

20th July 1900

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 in a satisfactory manner, on completion it was tried under working conditions with satisfactory results

It is submitted that
this vessel is entitled to
THE RECORD.
L.A. Light.
7/8/00

Total Capacity of Generators 9 Kilowatts

The amount of Fee ... £ 9 : -

When applied for,
1st July 1900
When received,
See debit book.

Travelling Expenses (if any): £

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

Im. 3.22.—Transfer.
(The Surveyors are requested not to write on or below the space for Committee's Minute.)



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