

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 17 OCT 1929

Date of writing Report

19

When handed in at Local Office

16 OCT. 1929

Port of

SUNDERLAND

No. in Survey held at

Sunderland.

Date, First Survey

July 12th.

Last Survey

July 29th.

1929.

Reg. Book. Subh.

40868

on the

S.S. John Charrington

(Number of Visits.....)

Tons

Gross 1576

Net 883

Built at

Sunderland.

By whom built

Messrs J. Brown & Co Ltd

Yard No. 181

When built 1929

Owners

Charrington Gardner Lockett & Co Ltd

Port belonging to

London.

Electric Light Installation fitted by

The Sunderland Forge & Eng Co Ltd.

Contract No. 181

When fitted 1929

System of Distribution

Double wire

Pressure of supply for Lighting

110

volts, Heating

volts, Power

volts.

Direct or Alternating Current, Lighting

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

In main 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

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

In main 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

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 & Fuse for main Generator, Single Pole Switch & D.P. Fuse for feeder circuits

Instruments on main switchboard

1

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

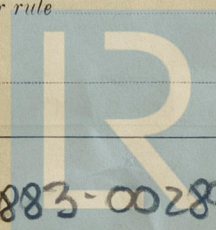
Earth Lamp, Switch & Fuse on each pole

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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Foundation

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If portable lamps for use in dangerous spaces are supplied, are they of a type approved by the Home Office

[illegible]

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.pro. THE SUNDERLAND FORGE & ENGINEERING CO. LTD.

Electrical Engineers.

Date 8/10/29

H. Haffner

COMPASSES.

Distance between electric generators or motors and standard compass 130

Distance between electric generators or motors and steering compass 120

The nearest cables to the compasses are as follows:—

A cable carrying 3.36 Ampères 10 feet from standard compass 10 feet from steering compass.

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

A cable carrying 18 Ampères Ld into feet from standard compass 10 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 All courses course in the case of the standard compass, and Nil degrees on All courses course in the case of the steering compass.

Per Pro

JOHN CROWN & SONS, Ltd.

W. Chamberlain

Secretary.

Builder's Signature.

Date 11 Oct 1929

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 above installation is in accordance with the Society's Rules. The vessel is eligible in my opinion for notation as light.

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

29/10/29

Total Capacity of Generators 3.75 Kilowatts

The amount of Fee ... £ 5:

When applied for, -

26 July 1929

When received,

29 July 1929

Travelling Expenses (if any) £ :

W. T. Badger

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

Elec. Lt.



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