

Rpt. 13.

Std. No. 29611

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report

19

When handed in at Local Office

20 JAN 1928

Port of

NEWCASTLE-ON-TYNE

SUNDERLAND.

No. in Survey held at

Sunderland

Date, First Survey

21 Nov 27

Last Survey

7 Jan 1928

Reg. Book. Supt.

(Number of Visits)

Tons

Gross 2689

Net

1614

42028 on the S.S. Hewton Abbot.

Built at

Sunderland

By whom built

J. Brown & Sons Ltd

Yard No.

179

When built

1927

Owners

J & B. Wilton

Port belonging to

London

Electric Light Installation fitted by

The Sunderland Forge & Eng Co Ltd

Contract No.

When fitted 1927.

System of Distribution

Double Wire Distribution Box ✓

Pressure of supply for Lighting

110 ✓

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 rating

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

series with each shunt field

Are all terminals accessible, clearly marked, and furnished with sockets

Yes

are they so spaced or shielded that they cannot be accidentally earthed,

short circuited, or touched

Yes

Are the lubricating arrangements of the generators as per Rule

Yes

Position of Generators

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 axes 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

Mechanically-Coupled

Main Switch Boards, where placed

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

Same Compartment

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, non-ignitable 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 insulated from the slab

Yes

with mica or micanite or other non-hygroscopic insulating material, and the slab similarly insulated from its framework

and is the frame effectively earthed

Yes

Are the fittings as per Rule regarding:— 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 & Fuses on generator mains

Single Pole Switch & Double Pole Fuses on each

outgoing circuit

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

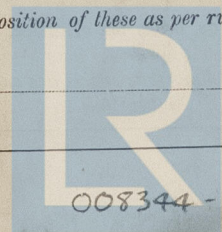
Earth Lamp Switch & Fuse on Each Pole

Switches, Circuit Breakers and Fusible Cut-outs, do these comply with the requirements of the Rules

Yes

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

Yes



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008344-008353-01841

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. LD. Electrical Engineers.

Date 12th Jan. 1928.

Stafford

COMPASSES.

Distance between electric generators or motors and standard compass 70 Feet

Distance between electric generators or motors and steering compass 62 Feet

The nearest cables to the compasses are as follows:—

A cable carrying 6.5 Ampères 10 feet from standard compass 5 feet from steering compass.

A cable carrying 2 Ampères 8 feet from standard compass Led Into ~~from~~ steering compass.

A cable carrying 2 Ampères Led Into ~~from~~ standard compass 6 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. J. Lamb

Builder's Signature.

Date 16 Jan 1928

Secretary.

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 elec light, wireless

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

W. J. Lamb
23/1/28

Total Capacity of Generators 8 Kilowatts.

The amount of Fee ... £ 8 : - : 12 Jan 19 28

Travelling Expenses (if any) £ : : 14 Jan 19 28

W. T. Badger

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

Elec Light



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