

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL) 28 JUL 1927

Received at London Office

Date of writing Report 6th July 1927. When handed in at Local Office

19 Port of Belfast.

No. in Survey held at

Belfast.

Date, First Survey

13th June

Last Survey

14th July

1927

Reg. Book.

(Number of Visits.....7)

on the TWIN SCREW S.S. BERTA.

Tons { Gross
Net

Built at BELFAST

By whom built

Harland & Wolff

Yard No. 798

When built 1927

Owners Curacaosche Scheepvaart Mij

Port belonging to

Willemstad

Electric Light Installation fitted by

Harland & Wolff Ltd.

Contract No. 798 When fitted 1927.

System of Distribution Two wire direct current to distribution boxes.

Pressure of supply for Lighting

110

volts, Heating

volts, Power

110

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.

Yes

, 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

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 engine room - aft on starboard side

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 engine room - On angle iron frame beside 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

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

Generator is
Connected to bus bars by double pole, overload and time limit circuit breaker
and each outgoing circuit has double pole switches & fuses.

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 indicator

Lamps Connected to bus bars 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



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002620-002630-0141 1/2

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

0141 217

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.

Electrical Engineers.

Date July 22nd '27.

COMPASSES.

Distance between electric generators or motors and standard compass 164 FEET

Distance between electric generators or motors and steering compass 160 FEET

A cable carrying 14.4 Amperes 18 feet from standard compass 12 feet from steering compass.

A cable carrying 8.2 Amperes 18 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 Nil degrees on any course in the case of the standard compass, and Nil degrees on any course in the case of the steering compass.

Builder's Signature.

Date July 22nd '27.

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 now been efficiently fitted in accordance with the Rules. The materials & workmanship are good and when tested under full working load the installation worked satisfactorily.

In my opinion the installation is eligible to have notation "Electric Light".

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

JWD
29/7/27

Total Capacity of Generators 8 Kilowatts

The amount of Fee ... £ 8 : 0 : 25 July 27

Travelling Expenses (if any) £ : : 20. 9. 27

H. P. Southwell

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

WED. 3 AUG 1927

Assigned

Electric Light



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