

Rpt. 13.

No. 43792

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

WFO. 6 AUG. 1924

Received at London Office

Date of writing Report 27.6.1924 When handed in at Local Office 4.8.1924 Port of GLASGOW.

No. in Survey held at GREENOCK.

Date, First Survey 19.5.24 Last Survey 24.6.1924

Reg. Book.

(Number of Visits.....)

40078 on the SS. MARISTON.

Tons { Gross 4557

Net

Built at PORT GLASGOW.

By whom built LITHGOW'S LTD

Yard No. 744

When built 1924

Owners W. S. MILLER & CO

Port belonging to

GLASGOW.

Electric Light Installation fitted by WALTER BENNETT & CO

Contract No. 744

When fitted 1924.

System of Distribution

Double wire

Pressure of supply for Lighting

110

volts, Heating

volts, Power

volts.

Direct or Alternating Current, Lighting

Direct

Power

Alternating current system, state frequency of periods per second

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

they over compounded 5 per cent.

Yes

if not compound wound state distance between each generator

more than one generator is fitted are they arranged to run in parallel

Yes

is an adjustable regulating resistance fitted in

with each shunt field

all terminals accessible and clearly marked

Yes

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

short circuited

Yes

Are the lubricating arrangements of the generators as per Rule

Yes

Position of Generators

Main Platform Starboard Side Engine Room

ventilation in way of the generators satisfactory

Yes

are they clear of all inflammable material

Yes

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

their axis of rotation fore and aft

Yes

thing, are the bedplates and frames of the generating plant efficiently earthed

Yes

are the prime movers and

respective generators in metallic contact

Yes

in Switch Boards, where placed

Near Generating Set

If the generators and main switchboard are not placed in the same compartment, is each generator provided with

use 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

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

they constructed wholly of durable, incombustible non-absorbent materials

Yes

is all insulation of high dielectric strength and of

sufficiently 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

are 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

individual fuses to voltmeter, pilot or earth lamp

Yes

Yes

connections of switches

Yes

Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches

1-6 way D.P.

Main Switch fuses 25 amperes per way 71-150 amp main D.P.

Switch fuses controlling complete installation

Instruments on main switchboard

One

ammeter

One

voltmeter

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

2 Earth

Lamps are provided on Main Board

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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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 WALTER BENNETT, LIMITED,

Walter Bennett

Electrical Engineers.

Date *16th July 1924.*

COMPASSES.

Distance between electric generators or motors and standard compass

90'

Distance between electric generators or motors and steering compass

80'

The nearest cables to the compasses are as follows:—

A cable carrying *6* Ampères *12* feet from standard compass *10* feet from steering compass.

A cable carrying *.5* Ampères *in* feet from standard compass *in* feet from steering compass.

A cable carrying Ampères 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.

LITHGOW & CO. LIMITED.

W. J. Allan

Builder's Signature.

Date *29 July 1924*

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, etc.)

This installation

has been fitted on board under special survey. Tested under full working

conditions and found satisfactory

The workmanship was found to be good and sound.

Elec. Light

9/8/24

Total Capacity of Generators *12* Kilowatts

The amount of Fee ...

£ *12 0 0*

When applied for,

9/8/24

Travelling Expenses (if any) £

10 6

When received,

30/6/24 mmsd.

J. S. Rankin

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

GLASGOW

5 AUG 1924

CW

Assigned

Elec. Light



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