

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

No. 9154

WED. JUL 16 1924

Date of writing Report

19

When handed in at Local Office 15-7-1924 Port of Belfast

Received at London Office

No. in Survey held at Reg. Book.

Belfast

Date, First Survey

Feb 26 1924

Last Survey

June 26 1924

(Number of Visits 20)

on the New Steel M.S. "Lochmonar"

Built at Belfast

By whom built Harland & Wolff Ltd

Yard No. 514

Tons { Gross 9103 Net 5815

Owners R. M. S. P. Meat Transports Ltd

Port belonging to

London

When built 1924

Electric Light Installation fitted by Harland & Wolff Ltd.

Contract No. 514

When fitted 1924

System of Distribution

Double wire

Pressure of supply for Lighting

220

volts, Heating

220

volts, Power

220

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

Yes.

is an adjustable regulating resistance fitted in

series with each shunt field

Yes.

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

Port side of Motor 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

On platform over thrust recess in Motor 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

The switchgear

for each generator consists of a 500 amp. triple pole switch (equalizing blade closing before &

opening after main blades) & a 500 amp. double pole circuit breaker max. & res. current with time

Each outgoing circuit provided with a double pole switch & one fuse per pole.

limit.

Instruments on main switchboard

5

ammeters

2

volts

arranged

synchronizing 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

see ltr 11/2/24

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

Yes.

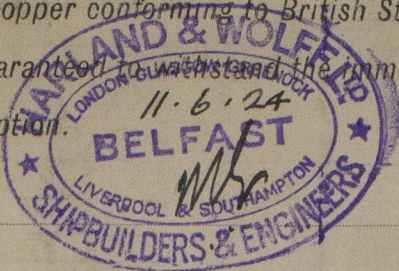
Section and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule

Yes.

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

COMPASSES.

Distance between electric generators or motors and standard compass

Generator 110 feet. Nearest motor 60 feet.

Distance between electric generators or motors and steering compass

" 104 feet. " 54 feet.

The nearest cables to the compasses are as follows:—

A cable carrying 1.5 Ampères 9 feet from standard compass 5 feet from steering compass. ✓

A cable carrying 7.1 Ampères 15 feet from standard compass 11 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

0 ✓

degrees on

all

courses in the case of the standard

compass, and

0 ✓

degrees on

all

courses in the case of the steering compass.

For HARLAND & WOLFF LTD.

Builder's Signature.

Date 11.7.1924

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, &c.)

This installation has been installed in accordance with the Rules. and under Special Survey. The materials & workmanship are good & the tests of the machines under working overboard conditions were satisfactory.

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

15/8/24

Total Capacity of Generators 400. Kilowatts

The amount of Fee ...

£ 11-10-0

When applied for,

19

Travelling Expenses (if any)

When received,

11-11-1924

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

Elec Lt.

Im. 9. 1. 1. (The Surveyors are requested not to write on or about the space for Committee's Minute.)



© 2020

Lloyd's Register
Foundation