

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

6 APR 1927

Date of writing Report

19

When handed in at Local Office

19

Port of

Middlesbrough

No. in
Reg. Book.

Survey held at West Hartlepool

Date, First Survey

8-6-26

Last Survey

14-3-1927

(Number of Visits.....12.....)

on the

S. S. Gypsum King

Tons

Gross 3915.23

Net 1969.59

Built at Haverton Hill on Tees By whom built Furness Shipbuilding Co. Yard No. 108

When built 1927

Owners Messrs The Gypsum Packet Co. Ltd

Port belonging to

Middlesbrough

Electric Light Installation fitted by Furness Shipbuilding Co. Ltd

Contract No. 108

When fitted 1927

System of Distribution

Double Wire

Pressure of supply for Lighting

110

volts, Heating

110

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 overload

yes

, are they compound wound

yes

are they over compounded 5 per cent.

level

, 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

yes

Are all terminals accessible and clearly marked

yes

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

or short circuited

Are the lubricating arrangements of the generators as per Rule

yes

Position of Generators

Starboard side of 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

Main Switch Boards, where placed

Starboard side of Engine Room on fwd side of Engineers Shop

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

bar

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 for Generator & 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

2-10 watt lamps in

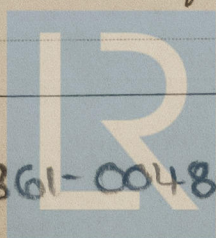
series across the bus-bars & middle point earthed

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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Lloyd's Register
Foundation

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

FURNESS SHIPBUILDING CO. LIMITED.

P. S. G. Poon Electrical Engineer.

Date 30th March 1927

COMPASSES.

Distance between electric generators or motors and standard compass 250'

Distance between electric generators or motors and steering compass 240'

The nearest cables to the compasses are as follows:—

A cable carrying _____ Ampères _____ feet from standard compass _____ feet from steering compass.

A cable carrying _____ Ampères _____ feet from standard compass _____ 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 all course in the case of the standard

compass, and nil degrees on all course in the case of the steering compass.

FURNESS SHIPBUILDING CO. LIMITED.

Jas. M. Robertson Builder's Signature.

Date 30th March '27

Is this installation a duplicate of a previous case _____ If so, state name of vessel _____

General Remarks (State quality of workmanship, opinions as to class, &c. _____)

The materials and workmanship are good.

The installation of electric lighting has been carried out under special survey in accordance with the Rules and this electric light plant is considered suitable for a classed vessel.

Elec. Light.

P.S.G. 6/4/27.

Total Capacity of Generators 10. Kilowatts

The amount of Fee ... £ 10. 0. 0

When applied for,

5-4-1927

When received,

14/5/27

Travelling Expenses (if any) £ : :

P. P. W. Roberts

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

Elec Light