

Rpt. 13.

No. 11368

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

THU 24 APR 1924

Date of writing Report

When handed in at Local Office

Ap 23rd 1924

Port of

Bristol

No. in Survey held at

Portsmouth

Date, First Survey

Feb 2nd

Last Survey

Mar 10 1924

Reg. Book.

(Number of Visits)

78721

28853 on the

S.S. "NORTHQUAY"

Tons

Gross 930

Net 344

Built at

Hardenwald

By whom built

J. Schepers De Merwede

Yard No.

When built 1920

Manor Line Ltd (C. Angle & Co.)

Port belonging to

London

Electric Light Installation fitted by

Contract No.

When fitted

of Distribution

Gal. Roping & Lead Covered Cable

of supply for Lighting

110

volts, Heating

volts, Power

volts

or Alternating Current, Lighting

Direct

Power

ating current system, state frequency of periods per second

Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off

yes

tors, do they comply with the requirements regarding overload

yes

, are they compound wound

yes

over compounded 5 per cent.

, if not compound wound state distance between each generator

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

one only

, is an adjustable regulating resistance fitted in

th each shunt field

No

terminals accessible and clearly marked

yes

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

circuited

yes

Are the lubricating arrangements of the generators as per Rule

yes

n of Generators

Front of Engines

entilation in way of the generators satisfactory

yes

, are they clear of all inflammable material

yes

ted 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

axis of rotation fore and aft

yes

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

yes

are the prime movers and

pective generators in metallic contact

yes

Switch Boards, where placed

Along side

Generators

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

n each insulated pole as near as possible to the terminals of the generator, additional to that provided on the main switchboard

boards, are they placed in accessible positions, free from inflammable gases and acid fumes

yes

rotected from mechanical injury and damage from water, steam or oil

yes

, if situated near unprotected

rk or other combustible material, state distance of same horizontally from or vertically above the switchboards

and

constructed wholly of durable, incombustible non-absorbent materials

yes

, is all insulation of high dielectric strength and of

ently high insulation resistance

yes

, if semi-insulating material is used, are all conducting parts connected to one pole

d from the slab with mica or micanite and the slab similarly insulated from its framework

, and is the

ffectively earthed

yes

Are the following fittings as per Rule, viz.:— spacing or shielding of live parts

, 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

, connections of switches

yes

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

On 3 way

Double Pole

Main Switchboard

struments 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

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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Foundation

Insulation of Cables, state type of cables, single or twin *Single are the cables insulated and protected as per Tables III or IV of the Rules* *40*

Fall of Pressure, state maximum between bus bars and any point of the installation under maximum load 110 V

Cable Sockets and other connections, are the ends of all cables having a sectional area of 0.007 square inch and above provided with soldering sockets

Paper Insulated Cables. *If cables are paper covered, is the dielectric at the exposed ends of the conductor protected from moisture by being suitably sealed with insulating compound*

Cable Runs, are the cables fixed as far as possible in accessible positions not exposed to drip or accumulation of water or oil, or to high temperature from boilers, steam pipes, uptakes or other hot objects, or to avoidable risk of mechanical damage *along Main Bulwark*

Support and Protection of Cables, <i>state how the cables are supported and protected</i>	Gal Iron Conduit
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If cables are run in wood casings, are the casings and caps secured by screws _____, are the cap screws of brass _____, are the cables run in separate grooves _____. If armoured and lead covered cables are secured by metal clips, are the clips spaced as per Table VI _____

Refrigerated Chambers, *if lights are fitted, are the cables and fittings in accordance with the special requirements* _____

Joints in Cables, state if any, and how made, insulated, and protected *None*

Watertight Glands and Deck Tubes, *are all cables passing through decks and watertight bulkheads provided with deck tubes or watertight glands*

Bushes in Beams and Non-watertight Positions, where unarmoured cables pass through beams and non-watertight partitions, are the holes efficiently

flushed Yes state the material of which the bushes are made Fibre

Earthing Connections, state what earthing connections are fitted and their respective sectional areas

....., are their connections made as per Rule

Alternative Lighting, are the groups of lights in the propelling machinery space arranged as per Rule 400

Emergency Supply, *state position and method of control of the emergency supply and how the generator is driven*

Navigation Lamps, are these separately wired Yes, controlled by separate switch and separate fuses Yes.

Are the fuses double pole yes, are the switches and fuses grouped in a position accessible only to the officers on watch yes

Each navigation lamp an automatic indicator as per Rule _____, are separate screens provided for the use of oil and electric side lights

separate oil lanterns provided for the mast head lights and side lights..... *Yes*

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to rain or condensed moisture, undertight

any fittings placed in spaces in which goods are liable to be stacked in close proximity to the ceiling, and in which the fittings are exposed to drip or condensed moisture, watertight.

any fittings placed in space in which you are liable to be sucked in close proximity to them; if so, how are they protected. None

any findings placed in spaces where inflammable or explosive dust or gases are liable to be present, if so, how are they protected..... No

....., how are the cables led

ere are the controlling switches situated _____

Archlight Lamps, No. of _____, whether fixed or portable _____, are their fittings as per Rule

Lamps, other than searchlight lamps, No. of....., **are their live parts insulated from the frame or case**..... **are their fittings as per Rule**.....

tors, are their working parts readily accessible..... are the coils self-contained and readily removable for replacement.....

the brushes, brush holders, terminals and lubricating arrangements as per Rule

immable gases cannot accumulate and clear of all inflammable material.

are their axis of rotation fore and aft

located near unprotected woodwork or other combustible material, are the motors of the totally enclosed, pipe ventilated, forced draught, drip or flame proof type

....., if not of this type, state distance of the combustible material horizontally or vertically above the motors and

Control Gear and Resistances, are the generator field and motor speed regulators, starters and controllers constructed as per Rule.....

Lightning Conductors, where lightning conductors are required, are these fitted as per Rule.....

ps carrying Oil having a Flash Point less than 150° F. Have the special requirements of the Rules been complied with regarding switches, joint boxes,

on and distribution boards, protection of cables, method of distribution, lead of cables, lights and fittings. *Yes*

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

PARTICULARS OF GENERATING PLANT.

DESCRIPTION OF GENERATOR.	No. of	RATED AT				DRIVEN BY.	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE.	
		Kilowatts.	Volts.	Ampères.	Revs. per Min.		Fuel Used.	Flash Point of Fuel.
MAIN	1	1	110	10	700	Steam Engine		
AUXILIARY								
EMERGENCY								
ROTARY TRANSFORMER								

LIGHTING AND HEATING CONDUCTORS

[illegible]

MOTOR CONDUCTORS.

[illegible]

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.

J. O. McPHELL & STEELWOOD, LTD.

Electrical Engineers.

Date

Jan 30th 1924

C. Campion

COMPASSES.

Distance between electric generators or motors and standard compass

50 feet

Distance between electric generators or motors and steering compass

The nearest cables to the compasses are as follows:—

A cable carrying 15 Ampères 3 feet from standard compass 9 feet from steering compass.

A cable carrying 1 Ampères 10 feet from standard compass 10 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 With full power & without

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

Builder's Signature.

Date

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 machine examined under working conditions & found satisfactory

This installation of electric lights has been examined in its completed condition found to be in order

To complete the survey an automatic indicator requires to be fitted for the navigation lights.

Total Capacity of Generators 1 Kilowatts

The amount of Fee ...

£ 5 : 0 : 0

When applied for,

April 19, 24

Travelling Expenses (if any) £

When received,

See debit book

RW Coomber & Wm W. Curme
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

Im 42—Transfer.
(The Surveyors are requested not to write on or alter the space for Committee's Minute.)



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