

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

WED. 14 MAY 1924

Date of writing Report 7. 5. 1924 When handed in at Local Office 12. 5. 1924 Port of GLASGOW.

No. in Survey held at GLASGOW.

Date, First Survey 27. 3. 24 Last Survey 25. 4. 1924

Reg. Book,

(Number of Visits.....)

38024 on the

S. S. "AGILITY."

Tons

Gross

Net

522

Built at

GREENOCK.

By whom built

MRS G. BROWN & CO

Yard No.

141

When built

1924.

Owners

F. T. EVERARD & SONS LTD

Port belonging to

LONDON.

Electric Light Installation fitted by

MRS JAMES BRASH & CO

Contract No. 141

When fitted 1924.

System of Distribution

Two Wire

Pressure of supply for Lighting

110

volts, Heating

✓

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.

Yes

, if not compound wound state distance between each generator

✓

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

One generator

, 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

Engine Room. Starboard

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

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

Engine Room Starboard

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

Same Comp.

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.

S. P. Main switches also Sub switches

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

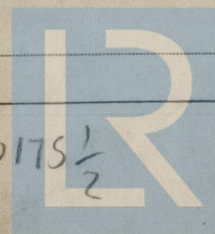
Earth lamps

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



© 2020

Lloyd's Register
Foundation

004332-004337-0175 1/2

Insulation of Cables, state type of cables, single or twin Both are the cables insulated and protected as per Tables III or IV of the Rules. Yes

Fall of Pressure, state maximum between bus bars and any point of the installation under maximum load..... 2.5 Volts

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* No paper insulated cables.

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 *Yes.*

Support and Protection of Cables, state how the cables are supported and protected *Clipped to Beames - Frames, etc*

If cables are run in wood casings, are the casings and caps secured by screws No casing, are the cap screws of brass Yes, are the cables run in separate grooves Yes. If armoured and lead covered cables are secured by metal clips, are the clips spaced as per Table VI Yes

Refrigerated Chambers, if lights are fitted, are the cables and fittings in accordance with the special requirements None

Joints in Cables, state if any, and how made, insulated, and protected *No joints*

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*
bushed *Yes* state the material of which the bushes are made *Lead*

Earthing Connections, state what earthing connections are fitted and their respective sectional areas None

..., are their connections made as per Rule

Alternative Lighting, are the groups of lights in the propelling machinery space arranged as per Rule *No - alt. lighting*

Emergency Supply, state position and method of control of the emergency supply and how the generator is driven..... *None*

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

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

are 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 drip or condensed moisture, watertight? *Yes*

are any fittings placed in spaces in which goods are liable to be stacked in close proximity to them; if so, how are they protected.....No

are any fittings placed in spaces where inflammable or explosive dust or gases are liable to be present, if so, how are they protected

Air tight fittings (Exposed outside spaces) _____, how are the cables led

where are the controlling switches situated Outside spaces.

Searchlight Lamps, No. of 4, whether fixed or portable ✓, are their fittings as per Rule ✓

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

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

are the brushes, brush holders, terminals and lubricating arrangements as per Rule.....✓....., are the motors placed in well-ventilated compartments in which

inflammable gases cannot accumulate and clear of all inflammable material ✓

are they protected from mechanical injury and damage from water, steam or oil.....✓..... are their axis of rotation fore and aft.....✓.....

if situated 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.....*Yes*

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

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

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

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

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	2.5	110	25	600	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.

James Brash & Co Electrical Engineers. Date 6th MAY 1924

COMPASSES.

Distance between electric generators or motors and standard compass 60 ft
Distance between electric generators or motors and steering compass 45 ft
The nearest cables to the compasses are as follows :—
A cable carrying 3 Ampères 15 ft feet from standard compass 12 ft 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.

Geo Brown & Co Builder's Signature. Date 8.5.24

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 fitted on board under special survey. Tested under full working conditions and found satisfactory. The workmanship was found to be good and sound.)

It is submitted that this record is eligible for THE RECORD.
Elec. Light.
N.A.
16/5/24

Total Capacity of Generators 22 Kilowatts

The amount of Fee ... £ 5-0-0 :
Travelling Expenses (if any) :
When applied for, 6/5/24
When received, See Debit book.

J. St. Rankin
Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 13 MAY 1924

Assigned Elec Light



1m.3.22.—Transfer.
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

H.C.
12.5.24