

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 19 AUG 1924

Date of writing Report 30. 7. 1924 When handed in at Local Office 5. 8. 1924 Port of *Middlesbrough*

No. in Survey held at *Haverton Hill* Date, First Survey *while* Last Survey *building* 19-
 Reg. Book. *S. S. DONA FLORA* (Number of Visits.....)

Built at *Haverton Hill* By whom built *Furness S. P. Co Ltd* Yard No. *71* When built *1924*
 Owners *Kingdon Steamships Limited* Port belonging to *Middlesbrough*
 Electric Light Installation fitted by *Furness S. P. Co Ltd* Contract No. *71* When fitted *1924*

System of Distribution

Double wire Insulated

Pressure of supply for Lighting 100 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. *Level*, if not compound wound state distance between each generator *yes*

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 *yes*Are the lubricating arrangements of the generators as per Rule *yes*

Position of Generators

*Stringer Platform 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 *yes*

Main Switch Boards, where placed

Stringer Platform starboard side of Engine Room Aft B'head

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 *Double Pole switches &**Removable porcelain fuses for Generator & each outgoing circuit*

Instruments on main switchboard

one

ammeters

one

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 *Two 16 c.p. lamps in**series & middle point earthed; connected to each bus bar by means of switch & fuse*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*

[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.

F. S. GLOVER

Electrical Engineers.

Date 31. 7. 24

COMPASSES.

Distance between electric generators or motors and standard compass 120'

Distance between electric generators or motors and steering compass 112

The nearest cables to the compasses are as follows:—

A cable carrying 6 Ampères inside feet from standard compass 6 feet from steering compass.

A cable carrying 6 Ampères 4 feet from standard compass 3 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.

F. S. GLOVER

Builder's Signature.

Date 31. 7. 24

Is this installation a duplicate of a previous case yes If so, state name of vessel Tona Isabel, 12019

General Remarks (State quality of workmanship, opinions as to class, &c.) This installation has been fitted in accordance with the Rules is of good materials and workmanship and on completion was examined under full working conditions with satisfactory results

It is submitted that this vessel is eligible for the RECORD. Elec. Light. R.A. 19/8/24

Total Capacity of Generators 3.5 Kilowatts

The amount of Fee ... £ 3-10-0 When applied for, 18-8-19-24

Travelling Expenses (if any) £ : : When received, 20/8/24

Wm Morrison

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI 22 AUG 1924

Assigned

Im 9.22.—Transfer.
(The Surveyors are requested not to write on or below the space for Committee's Minute.)



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