

# REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

25 NOV 1927

Date of writing Report 19 When handed in at Local Office 24/11/27 Port of Newcastle-on-Tyne  
 No. in Survey held at Sunderland Date, First Survey 30 Aug Last Survey 1st hour 19 27  
 Reg. Book. Supp. 41630 on the S. S. Laristan (Number of Visits 9)  
 Built at Sunderland By whom built Short Bros. Ltd. Yard No. When built 1927  
 Owners Hindustan Steam Shipping Co. Ltd. Port belonging to Newcastle  
 Electric Light Installation fitted by The Sunderland Forge & Eng Co. Ltd. Contract No. When fitted 1927.

## System of Distribution

Pressure of supply for Lighting 110 volts, Heating — volts, Power — volts.

## Direct or Alternating Current, Lighting

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 rating 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 no, is an adjustable regulating resistance fitted in series with each shunt field Yes.

Are all terminals accessible, clearly marked, and furnished with sockets Yes, are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched Yes Are the lubricating arrangements of the generators as per Rule Yes.

## Position of Generators

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 axes 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

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, non-ignitable 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 insulated from the slab

with mica or micawyle or other non-hygroscopic insulating material, and the slab similarly insulated from its framework Yes

and is the frame effectively earthed Yes Are the fittings as per Rule regarding: — 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 + double pole fuses on dynamo mains on 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 earth lamps

coupled to earth through switches + fuses

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

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



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

P. pro. THE SUNDERLAND FORGE & ENGINEERING CO. LTD.,

Electrical Engineers.

Date 14th November, 1927.

*H. Haffner*

#### COMPASSES.

Distance between electric generators or motors and standard compass

256 ft.

Distance between electric generators or motors and steering compass

256 ft.

The nearest cables to the compasses are as follows:—

A cable carrying 6.97 Ampères 12 feet from standard compass 8 feet from steering compass.

A cable carrying .19 Ampères 12 feet from standard compass led into feet from steering compass.

A cable carrying .19 Ampères led into feet from standard compass 12 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 no degrees on any course in the case of the standard compass, and no degrees on any course in the case of the steering compass.

FOR SHORTER BROTHERS, LIMITED.

*W. T. Badger*

DIRECTOR.

Builder's Signature.

Date 22 Nov 1927

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.)

The above installation is in accordance with the Society's Rules. The vessel is eligible in my opinion for notation elec light wireless

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

*W. T. Badger*  
26/11/27

Total Capacity of Generators 15 Kilowatts.

The amount of Fee ... £ 15: NWC 2/6

When applied for,  
17 Nov 19 27

When received,  
12.12.27

*W. T. Badger*

Surveyor to Lloyd's Register of Shipping.

Travelling Expenses (if any) £ :

Committee's Minute

Assigned

*Elec light*

Im. 126.—Transfer.  
(The Surveyors are requested not to write on or below the space for Committee's Minute.)



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