

Rpt. 13.

No. 11065

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report 21-12-1922 When handed in at Local Office 21-12-1922 Port of Bristol Received at London Office 22 DEC. 1922

No. in Survey held at Bristol Date, First Survey Oct 21, 1921 Last Survey July 12th 1922
Reg. Book. 58485 on the T.S.M.V. Dumra (Number of Visits.....13.....)

Built at Bristol By whom built Charles Hill & Sons Yard No. 146 When built 1922
Owners British India Steam Navigation Co. Ltd. Port belonging to Glasgow

Electric Light Installation fitted by Chas Hill & Sons Bristol Contract No. When fitted 1922

System of Distribution

Double Wire System

Pressure of supply for Lighting 220 volts, Heating 220 volts, Power 220 volts.

Direct or Alternating Current, Lighting Direct Current 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 No, 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

Position of Generators Port & Starboard 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 Starboard Wing of 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

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

D.P. main Switches, S.P. C.B. switches for out going circuit

Instruments on main switchboard Two 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

for each generator

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

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.

CHARLES HILL & SONS LTD.

Electrical Engineers.

Date 18.12.22

COMPASSES.

Distance between electric generators or motors and standard compass

Engine room & Bridge

Distance between electric generators or motors and steering compass

5

The nearest cables to the compasses are as follows:—

A cable carrying 1 Ampères into feet from standard compass into feet from steering compass.

A cable carrying 1 Ampères " feet from standard compass " feet from steering compass.

A cable carrying 1 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.

Has the effect of switching on and off circuits, motors and other electro-magnetic apparatus within the vicinity of the compasses been noted

The maximum deviation due to electric currents was found to be degrees on course in the case of the standard

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

Charles Hill & Sons Ltd.

per

James L. Peck

Builder's Signature.

Date 18.12.22

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 under survey, the materials & workmanship are good & according to the rules, all parts tested under full working conditions with satisfactory results and are eligible in my opinion for record in the Register Book.

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

Elec. Light

AAV

27/12/22

Total Capacity of Generators

80 162.5

Kilowatts

The amount of Fee ...

£ 30 : 10 :

When applied for,

Dec 15 1922.

Travelling Expenses (if any): £

When received,

See debit book.

John W. Dwyer

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

Im 22—Transfer.
(The Surveyor are requested not to write on or below the space for Committee's Minute.)



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Foundation