

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

11 SEP 1924

Date of writing Report Sept 2nd 1924 When handed in at Local Office Sept 18th to 24 Port of Bristol
 No. in Survey held at Bristol Date, First Survey July 15th Last Survey Aug 14th 1924
 Reg. Book. 88505 on the Steel Sc. DORSET COAST. (Number of Visits 5)
 Tons { Gross 483
 Net 183
 Built at Bristol By whom built James Towers (S.B.) & Co. Ltd Yard No. 189 When built 1924
 Owners The Coast Lines Ltd Port belonging to Liverpool
 Electric Light Installation fitted by Messrs Campbell & Lohmann Contract No. 1924 When fitted 1924

System of Distribution

Fus. Board Loop inPressure of supply for Lighting 110 ✓ volts, Heating 110 volts, Power 110 volts.

Direct or Alternating Current, Lighting

Direct Current ✓Power AC ✓

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 yesare they over compounded 5 per cent. yes, if not compound wound state distance between each generatorWhere more than one generator is fitted are they arranged to run in parallel yes, is an adjustable regulating resistance fitted in series with each shunt fieldAre 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

Engines Top Platformis the ventilation in way of the generators satisfactory yes, are they clear of all inflammable material yesif situated near unprotected woodwork or other combustible material, state distance of same horizontally from or vertically above the generators and yes, are the generators protected from mechanical injury and damage from water, steam or oil yesare their axis of rotation fore and aft yesEarthing, are the bedplates and frames of the generating plant efficiently earthed yes are the prime movers and their respective generators in metallic contact

Main Switch Boards, where placed

Along Generator.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 yesSwitchboards, are they placed in accessible positions, free from inflammable gases and acid fumes yesare 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 yes and yesare 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 poleinsulated from the slab with mica or micanite and the slab similarly insulated from its framework yes, and is the frame effectively earthed yesAre 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

4 way main D.P. Switchboard Slide PanelInstruments 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 yesSection and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule yes

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Foundation

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.

C. Campion

Electrical Engineers.

Date *Sept 5/24*

COMPASSES.

Distance between electric generators or motors and standard compass *About 40 ft*

Distance between electric generators or motors and steering compass *-*

The nearest cables to the compasses are as follows :-

A cable carrying *1* Ampères *4* feet from standard compass *6* feet from steering compass.

A cable carrying *1* Ampères *2* feet from standard compass *4* feet from steering compass.

A cable carrying *2* Ampères *6* feet from standard compass *10* 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 *Nil*

The maximum deviation due to electric currents was found to be *Nil* degrees on *Nil* course in the case of the standard compass, and *Nil* degrees on *Nil* course in the case of the steering compass.

James W. Towers

Builder's Signature.

Date *Sept 9th 1924.*

To the James Towers (Shipbuilders) Company Ltd.

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 of electric lighting has been well fitted, the materials & workmanship are good, and under working conditions found satisfactory.

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

W.D.
17/10/24.

Total Capacity of Generators *2 1/2* Kilowatts

The amount of Fee ... £ *5 : 0 : 0* When applied for, *Aug 28 1924*
Travelling Expenses (if any) £ : : When received, *See debit book.*

John W. Guymer
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned