

REPORT ON ELECTRIC FITTINGS.

No. 12924

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report 19... When handed in at Local Office 16.5.1927 Port of Middlesbrough Received at London Office 17 MAY 1927

No. in Survey held at Wallsend-on-Tyne Date, First Survey 31.3.27 Last Survey 11.4.1927
Reg. Book. on the steamer "WINDSOLITE" (Number of Visits 3)

Built at Haverton Hill By whom built Furness S.B.C. Yard No. 115 When built 1924
Owners Imperial Oil Limited Toronto Port belonging to Windsor Ontario

Electric Light Installation fitted by Furness Shipbuilding Co Ltd Contract No. 115 When fitted 1927

System of Distribution Double Wire Insulated ✓

Pressure of supply for Lighting 110 ✓ volts, Heating 110 ✓ volts, Power 110 ✓ 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 rating yes ✓, are they compound wound yes ✓

are they over compounded 5 per cent. level ✓, if not compound wound state distance between each generator

Where 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 field

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

Position of Generators Starboard side of Engine Room yes ✓

Is the ventilation in way of the generators satisfactory yes ✓, are they clear of all inflammable material

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 bed-plates 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 Starboard side of Engine Room, Aft side of Engineer's Store

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, 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 micaite or other non-hygroscopic insulating material, and the slab similarly insulated from its framework

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. Triple pole circuit

Breaker for each Generator, Double pole Switch & fuses for each outgoing circuit

2 ammeters 2 voltmeters voltmeter synchronising device for paralleling purposes.

In Testing, state what means are provided at the main switchboard for indicating the state of the insulation of the system 2 to watt lamps in series across bus bars middle point earthed

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

Point Boxes 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.

For FURNESS SHIPBUILDING Co. LIMITED

P.S. Hood

Electrical Engineer.

Date *12th May 1927*

COMPASSES.

Distance between electric generators or motors and standard compass *160'*
 Distance between electric generators or motors and steering compass *155'*

The nearest cables to the compasses are as follows:—

A cable carrying *0.09* Amperes *3* feet from standard compass *3* feet from steering compass.

A cable carrying _____ Amperes _____ feet from standard compass _____ feet from steering compass.

A cable carrying _____ Amperes _____ 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.

For FURNESS SHIPBUILDING CO. LIMITED.

W. Governer

Builder's Signature.

Date *12th May 1927*

Director

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 materials and workmanship are good
 This electric installation has been fitted aboard under
 special survey in accordance with the Rules and tested
 with satisfactory results and is, in our opinion, suitable
 for a classed vessel.*

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

*W.D.
 18/5/27*

Total Capacity of Generators *15* Kilowatts.

The amount of Fee ... £ *15-0-0*
 Travelling Expenses (if any) £ : :
 When applied for, *10/5/24*
 Applied for at *Newcastle*
 When received, *10/6/27*

W.T. Badger

W.T. Badger.

Surveyor to Lloyd's Register of Shipping.

Committee's Minute _____

Assigned *Elec. light*

Im. 1. 26. - Transfer. (The Surveys are requested not to write on or back of the space for Committee's Minute.)



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