

REPORT ON ELECTRIC FITTINGS

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

TUE. 7 AUG 1923

Date of writing Report 1923 When handed in at Local Office - 3 AUG 1923 Port of Sunderland

No. in Survey held at Sunderland Date, First Survey June 25 Last Survey 13 July 1923
Reg. Book. S/S "GWENTLAND" (Number of Visits.....)

Built at Sunderland By whom built H. Thompson & Sons Yard No. 319 When built 1923
Owners Morley Jones & Co. Ltd. Port belonging to Newport Mon.

Electric Light Installation fitted by Clarke, Chapman & Co. Ltd. Contract No. _____ When fitted 1923

System of Distribution Double Wire System ✓

Pressure of supply for Lighting 100 ✓ volts, Heating _____ volts, Power _____

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. yes ✓, if not compound wound state distance between each generator _____

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 ✓

Position of Generators Lower platform, Starboard Side 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 Near Dynamo ✓

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 & fuses on Dynamo mains. Single pole switches & double pole fuses on each outgoing circuit. ✓

Instruments on main switchboard 1 ✓ ammeters 1 ✓ voltmeter _____ 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 Search lamps coupled to earth through double pole switches & fuses. ✓

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.

For Clarke, Chapman & Co., Ltd.

[Signature] Director, Electrical Engineers.

Date July 24th 1923.

COMPASSES.

Distance between electric generators or motors and standard compass 100 ft

Distance between electric generators or motors and steering compass 94 ft

The nearest cables to the compasses are as follows :-

A cable carrying .5 Ampères 12 feet from standard compass 6 feet from steering compass.

A cable carrying .5 Ampères 6 feet from standard compass 12 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.

For ROBERT THOMPSON & SONS LTD.

[Signature] Builder's Signature. Date 2 Aug 1923

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 installation has been satisfactorily fitted in the vessel, tested and found good.

It is submitted that this vessel is eligible for Blue Light RECORD.

7-8-23

Total Capacity of Generators 6 Kilowatts

The amount of Fee ... £ 6 : - : 16th July 1923

Travelling Expenses (if any) : £ : 28th July 1923

[Signature] Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

1m. 4. 22. - Transfer. (The Surveyor are requested not to write on or below the space for Committee's Minute)