

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 14 DEC 1927

Date of writing Report 9.11.1927 When landed in at Local Office 12.12.1927 Port of GLASGOW.

No. in Survey held at GREENOCK. Date, First Survey 14.10.27 Last Survey 27.10.27 19
Reg. Book (Number of Visits 4)

on the S.S. QUERCUS.

Tons { Gross 4564
Net

Built at PORT GLASGOW. By whom built LITHGOW'S LTD Yard No. 493. When built 1921.

Owners Arthur Shipping Co. Port belonging to London

Electric Light Installation fitted by MESSRS GRINDLAY ROSS & CO. Contract No. 493 When fitted 1921.

System of Distribution 2 wire ✓

Pressure of supply for Lighting 110 ✓ volts, Heating --- volts, Power --- 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. 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 ---

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 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 4 ft. 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 13" and 24"

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 micranite 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 ✓

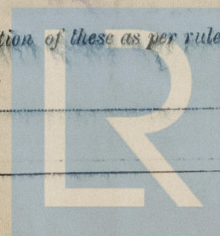
Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches: 1-100 amp. D.P. main switch and fuses also 30 amp. S.P. circuit switches and D.P. fuses

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.

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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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 GRINDLAY ROSS & Co. LTD.

Electrical Engineers.

Date 26th Nov 1927

COMPASSES.

Distance between electric generators or motors and standard compass 98 feet

Distance between electric generators or motors and steering compass 92 feet

The nearest cables to the compasses are as follows:—

A cable carrying .25 Ampères 1 feet from standard compass 9 feet from steering compass.

A cable carrying .5 Ampères 5 feet from standard compass 7 feet from steering compass.

A cable carrying .25 Ampères 9 feet from standard compass 1 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 any course in the case of the standard compass, and Nil degrees on any course in the case of the steering compass.

LITHGOWS LIMITED.

John M. Fullerton Secretary.

Builder's Signature.

Date 7 Dec 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.)

This installation has

been fitted on board under special survey. Tested under full working conditions and found satisfactory.

The materials and workmanship were found to be good and sound.

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

J. S. Rankin
16/12/27

Total Capacity of Generators 8 Kilowatts.

The amount of Fee ... £ 8.0.0: When applied for, 1927

Travelling Expenses (if any) £ 0.6: When received, 11/11/27

J. S. Rankin
Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 13 DEC 1927

Assigned Elec. Light.



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