

Rpt. 13.

No. 13895

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

LONDON 1925

Received at London Office.....

Date of writing Report 27.4.1925 When handed in at Local Office 14th May, 1925 Port of AberdeenNo. in Survey held at Aberdeen Date, First Survey 25.2.25 Last Survey 6.4.1925
Reg. Book. (Number of Visits.....)

on the

S.S. "PORTIA"

Tons { Gross 801
Net 313

Built at Aberdeen By whom built John Guthrie & Co. Yard No. 464 When built 1925

Owners R. Gilchrist & Co. Port belonging to Liverpool

Electric Light Installation fitted by The Sunderland Forge & Eng. Co. Ltd. Contract No. — When fitted 1925.

System of Distribution Double 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 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 one generator, 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 Are the lubricating arrangements of the generators as per Rule Yes

Position of Generators Main 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 Main 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 — 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 equaliser switches Double Pole

Switch & Fuses on Main Generator & S.P. Switches & Double Pole Fuses on outgoing circuits.

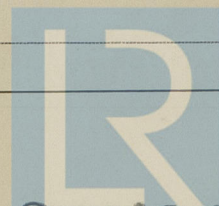
Instruments on main switchboard — ammeters — voltmeters — synchronising device for paralleling purposes.

Earth Testing, state what means are provided at the main switchboard for indicating the state of the insulation of the system

E.L. Circuits single wire.

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.



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Lloyd's Register

002385-002400-0067

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.

P. PRO THE SUNDERLAND FORGE & ENGINEERING CO. LTD.

Electrical Engineers.

Date 28 APR '25

COMPASSES.

Distance between electric generator ~~and~~ and standard compass 104 feet

Distance between electric generators or motors and steering compass

The nearest cables to the compasses are as follows:—

A cable carrying 46 Ampères 6 feet from standard compass — feet from steering compass.

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

THE JOHN DUTHIE TORRY SHIPBUILDING COY.

Builder's Signature.

Date 1 May '25

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 the vessel in accordance with the Rules and in a satisfactory manner; the materials and workmanship are good.
On completion the installation was tried under full working conditions with satisfactory results.

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

Total Capacity of Generators 3.75 Kilowatts

The amount of Fee ... £ 5-0-0 :
Travelling Expenses (if any) £ :
When applied for, 30.4.1925
When received, 15.7.1925

A. G. Forster

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

Elec Lt



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Foundation