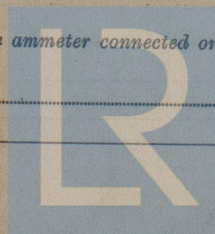


REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

FEB 19 1941

Date of writing Report 7th February 1941 When handed in at Local Office 18.2.41 Port of Glasgow Received at London OfficeNo. in Survey held at Glasgow Date, First Survey 10.12.40 Last Survey 3.2.41 Reg. Book. BB008 on the S.S. "EMPIRE STREAM" (Number of Visits 7)Built at Port Glasgow By whom built Lithgows Ltd. Yard No. 948 When built 1941 Tons {Gross 2922 Net 1638}Owners H.M. represented by The Ministry of Shipping Port belonging to GreenockElectrical Installation fitted by Campbell & Iskerwood Ltd. Contract No. 948 When fitted 1941Is vessel fitted for carrying Petroleum in bulk - Is vessel equipped with D.F. - E.S.D. - Gy.C. - Sub.Sig. -Have plans been submitted and approved Yes System of Distribution two wire Voltage of supply for Lighting 110Heating - Power 110 Direct or Alternating Current, Lighting D.C. Power D.C. If Alternating Current state frequency - Prime Movers, -has the governing been tested and found efficient when the whole load is suddenly thrown on and off Yes Are turbine emergency governors fitted with a trip switch as per Rule - Generators, are they compound wound Yes, are they level compounded under working conditions Yes, if not compound wound state distance between generators - and from switchboard - Where more than one generator is fitted are they arranged to run in parallel No, are shunt field regulators provided Yes Is the compound winding connected to the negative or positive pole negativeHave machines over 100 kw. been inspected by the Surveyors during manufacture and testing - Have certificates of test for machines under 100 kw. been supplied Yes and the results found as per rule Yes Are the lubricating arrangements and the construction of the generators as per rule Yes Position of Generators In engine room, special platform starboard sideis the ventilation in way of generators satisfactory Yes are they clear of inflammable material Yes, if situated near unprotected combustible material state distance from same horizontally - and vertically - are the generators protected from mechanical injury and damage from water, steam and oil Yes, are the bedplates and frames earthed Yes and the prime movers and generators in metallic contact Yes Switchboards, where are main switchboards placed near generatorsare they in accessible positions, free from inflammable gases and acid fumes Yes, are they protected from mechanical injury and damage from water, steam and oil Yes, if situated near unprotected combustible material state distance from same horizontally - and vertically - what insulation material is used for the panels Indanols, if of synthetic insulating material is it an Approved Type Yes, if of semi-insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule - Is the frame effectually earthed YesIs the construction as per Rule Yes, including accessibility of parts Yes, absence of fuses on the back of the board Yes, individual fuses to pilot and earth lamps, voltmeters, etc. Yes locking of screws and nuts Yes, labelling of apparatus and fuses Yes, fuses on the "dead" side of switches Yes Description of Main Switchgear for each generator and arrangement of equaliser switches D.P. Switch and Fusesand for each outgoing circuit D.P. C/P Switch and FusesAre compartments containing switchboards composed of fire-resisting material or lined as per Rule - Instruments on main switchboard 2ammeters 2 voltmeters - synchronising devices - For compound machines in parallel is the ammeter connected on the pole opposite to the equaliser connection - Earth Testing, state means provided Earth Lamps

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W33-0214

situations..... 7 **Insulation Tests**, has the insulation resistance of all circuits and apparatus been megger tested and found satisfactory..... 74

The Electrical Equipment is installed in accordance with the approved plans and the requirements of the Rules.
All Insulated Conductors are guaranteed to have been tested at the maker's works as specified in the Rules.
The foregoing is a correct description.

CAMPBELL & FISHER, LTD.

Electrical Engineers.

Date 10. 2. 41

COMPASSES.

Minimum distance between electric generators or motors and standard compass.....

Minimum distance between electric generators or motors and steering compass.....

The nearest cables to the compasses are as follows:—

A cable carrying .36 Ampères *led into* feet from standard compass *led into* feet from steering compass.

A cable carrying 8 Ampères 8 feet from standard compass 6 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 *any* course in the case of the standard compass, and *nil* degrees on *any* course in the case of the steering compass.

LITHGOWS LIMITED.

Secretary

Builder's Signature.

Date 13/2/41

Is this installation a duplicate of a previous case..... If so, state name of vessel.....

General Remarks (State quality of workmanship, whether insulation tests, etc., have been made, opinions as to class, etc.)

The electrical equipment of this vessel has been fitted on board under special survey, tested under full working conditions and found satisfactory. The materials and workmanship are good. All the requirements of the approved plans and Ministry of Shipping specification have been carried out.

Noted
L.P.
27/2/41

(MADE IN ENGLAND.)
2m.10.38.—Transfer.
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

Total Capacity of Generators..... 20..... Kilowatts.

The amount of Fee £ 17 : 10 :
M.O.S. specification £ 4 : 7/6 :
Travelling Expenses (if any) £ :
When applied for, *at 6th* 19.....
When received, 19.....

J. P. Findlay & R. P. Storie
Surveyors to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 18 FEB 1941

Assigned SEE ACCOMPANYING MACHINERY REPORT.



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