

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

10 MAR 1944

Received at London Office.....

Date of writing Report 2nd MARCH 1944 When handed in at Local Office 7 3 1944 Port of GLASGOWNo. in Survey held at PORT GLASGOW Date, First Survey 14th DECEMBER 1943 Last Survey 2nd MARCH 1944
Reg. Book. (Number of Visits.....)37906 on the 'GEOLOGIST' Tons { Gross 6202
Net 3663Built at PORT GLASGOW By whom built LITHGOWS LTD Yard No. 989 When built 1944Owners CHARENTE S.S. CO. LTD Port belonging to LIVERPOOLElectrical Installation fitted by CAMPBELL & ISHERWOOD LTD Contract No. 989 When fitted 1944Is vessel fitted for carrying Petroleum in bulk — Is vessel equipped with D.F. Yes E.S.D. — Gy.C. ONLY Sub.Sig. —Have plans been submitted and approved Yes System of Distribution Single wire hull return Voltage of supply for Lighting 110Heating — Power 110 Direct or Alternating Current, Lighting D.C. Power D.C. If Alternating Current state periodicity — Prime Movers,has the governing been tested and found as per Rule when full load is suddenly thrown on and off Yes Are turbine emergency governors fitted with atrip 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 theyarranged to run in parallel No, are shunt field regulators provided Yes Is the compound winding connected to the negative or positive poleNegative Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing — Have certificates oftest for machines under 100 kw. been supplied Yes and the results found as per rule Yes Are the lubricating arrangements and the constructionof the generators as per rule Yes Position of Generators In engine room—, is the ventilation in way of generators satisfactory Yes are they clear of inflammable material Yes, if situatednear unprotected combustible material state distance from same horizontally — and vertically —, are the generators protected from mechanicalinjury and damage from water, steam and oil Yes, are the bedplates and frames earthed Yes and the prime movers and generators in metalliccontact Yes Switchboards, where are main switchboards placed In engine room near generators—are they in accessible positions, free from inflammable gases and acid fumes Yes, are they protected from mechanical injury and damage from water, steamand oil Yes, if situated near unprotected combustible material state distance from same horizontally — and vertically —, what insulationmaterial is used for the panels Slidings, if of synthetic insulating material is it an Approved Type Yes, if ofsemi-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 fusesto 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 —1 - 200 AMP S.P. Knife pattern switch with fuses—and for each outgoing circuit 75 AMP S.P. C.O. switches with fuses—Are compartments containing switchboards composed of fire-resisting material or lined as per Rule Yes Instruments on main switchboard 2ammeters 2 voltmeters — synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to theequaliser connection — Earth Testing, state means provided —Switches, Circuit Breakers and Fuses, are they as per Rule Yes, are the fuses an approved type Yes, are all fuses labelled asper Rule Yes If circuit breakers are provided for the generators, at what overload current did they open when tested —, are the reversed currentprotection devices connected on the pole opposite to the equaliser connection —, have they been tested under working conditions, and at what currentdid they operate — Joint Boxes, Section Boards and Distribution Boards, is the construction and position as per Rule YesCables, are they insulated and protected as per the appropriate Tables of the Rules Yes, if otherwise than as per Rule are they of an approved type W.E.state maximum fall of pressure between bus bars and any point under maximum load —, are the ends of all cables having a sectional area of 0.04square inch and above provided with soldering sockets Yes Are paper insulated and varnished cambric insulated cables sealed at the ends —

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 & ISHERWOOD LTD.

P. Schipke Director

Electrical Engineers.

Date *6-3-1944*

COMPASSES.

Minimum distance between electric generators or motors and standard compass. *Twelve feet*

Minimum distance between electric generators or motors and steering compass. *Ten feet*

The nearest cables to the compasses are as follows:—

A cable carrying *5.6* Ampères *9* feet from standard compass *7* feet from steering compass.

A cable carrying *2.3* Ampères *led into* ~~feet from~~ standard compass *led into* ~~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

John M. Gardiner Secretary

Builder's Signature.

Date *6/3/44*

Is this installation a duplicate of a previous case *Yes* If so, state name of vessel *S.S. 'PROSPECTOR'*

Plans. Are approved plans forwarded herewith *No* If not, state date of approval *19th November 1943*

Certificates. Are certificates of test for motors engaged on essential services and generators forwarded herewith *Yes*

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

The electrical installation of this vessel has been fitted on board under Special Survey tested under working conditions and found satisfactory. The materials and workmanship are good.

Notes

HLR

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P. 7.

7-3-44

Total Capacity of Generators *30* Kilowatts.

The amount of Fee ... £ *22* : *10* : *00* When applied for, *at 10*

Travelling Expenses (if any) £ *-* : *12* : *00* When received, *19*

J. M. Gardiner
Surveyor to Lloyd's Register of Shipping.

Committee's Minute *GLASGOW 2 MAR 1944*

Assigned

501438—Transfer. (MADE AND PRINTED IN ENGLAND.)
(The Surveyors are requested not to write on or below the space for Committee's Minute.)



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