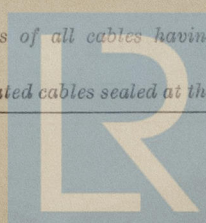


REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)


Received at London Office.....

22 JUL 1943

Date of writing Report... 6th July 1943 When handed in at Local Office... 19.5.1943 Port of... GLASGOWNo. in Survey held at... PORT GLASGOW Date, First Survey... 16th May '43 Last Survey... 5th July 1943
Reg. Book. (Number of Visits... 11.....)8644 R on the... EMPIRE SERVICE Tons {Gross.....
Net.....Built at... PORT GLASGOW By whom built... MESSRS LITHGOWS LTD Yard No. 982 When built... 1943Owners... MINISTRY OF WAR TRANSPORT Port belonging to... GREENOCKElectrical Installation fitted by... MESSRS SUNDERLAND FORGE & ENGINEERING CO LTD Contract No. 982 When fitted... 1943Is vessel fitted for carrying Petroleum in bulk... — Is vessel equipped with D.F. Yes E.S.D. Only Gy.C. — Sub.Sig. —Have plans been submitted and approved... Yes System of Distribution... Two wise 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 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 polePositive Have 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 roomis 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... In engine room above 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... Slindamps, 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... 150 AMP D.P. Knife pattern switch with two S.P. 200 AMP fuses.and for each outgoing circuit... 60 or 30 AMP D.P. change over switches with fuses.Are 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 lampsSwitches, Circuit Breakers and Fuses, are they as per Rule... Yes, are the fuses an approved type... Yes, are all fuses labelled as per Rule... Yes If circuit breakers are provided for the generators, at what overload current did they open when tested... —, are the reversed current protection devices connected on the pole opposite to the equaliser connection... —, have they been tested under working conditions, and at what current did 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 0.04 square inch and above provided with soldering sockets... Yes Are paper insulated and varnished cambric insulated cables sealed at the ends... Yes



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 Lloyd's Register
Foundation

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.

P.Pro. THE SUNDERLAND FORCE & ENGINEERING CO. LTD.

Electrical Engineers.

Date 8th July 1943

COMPASSES.

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

Twenty two feet.

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

Twenty feet.

The nearest cables to the compasses are as follows:—

A cable carrying 7.3 Ampères 9 feet from standard compass 7 feet from steering compass.

A cable carrying 14 Ampères led into ~~from~~ standard compass led into ~~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.

Lottgova Limited
per. Mr.

Builder's Signature.

Date 12th July 1943

Is this installation a duplicate of a previous case.....

Yes

If so, state name of vessel

EMPIRE FALSTAFF

Plans. Are approved plans forwarded herewith.....

No

If not, state date of approval

24th March 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 equipment of this vessel has been fitted on board under special survey tested under working conditions and found satisfactory. All the requirements of the approved plans and M.O.W.T. Specification have been carried out.

The materials and workmanship are good.

Noted
S.P.
23/7/43

Total Capacity of Generators 30 Kilowatts.

The amount of Fee ... £ 22 : 10 :

SPEC. FEE. £ 5 : 12/6

Travelling Expenses (if any) £ — : 15 :

When applied for,

C. G. G.

When received,

17.7.43.

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

Committee's Minute

Assigned

Transmit to Wokingham

GLASGOW

20 JUL 1943

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