

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

11 SEP 1946

Received at London Office.....

Date of writing Report... 10th Aug 1946 When handed in at Local Office... 30 Aug 1946 Port of... LIVERPOOL

No. in Survey held at... LYTHAM. Date, First Survey... 16/4/46 Last Survey... 6/8/46 (Number of Visits... 4)

on the... s.s. FRESHSPRAY Tons { Gross... 223 Net... 93

Built at... LYTHAM. By whom built... LYTHAM SHIPBUILDING & ENG. CO. LTD. Yard No... 885 When built... 1946

Owners... THE ADMIRALTY. Port belonging to... LONDON

Electrical Installation fitted by... LYTHAM SHIPBUILDING & ENG. CO. LTD. Contract No... 885 When fitted... 1946

Is vessel fitted for carrying Petroleum in bulk... No Is vessel equipped with D.F... No E.S.D... No Gy.C... No Sub.Sig... No

Have plans been submitted and approved... Yes System of Distribution... 400 wire Voltage of supply for Lighting... 110

Heating... 110 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... are shunt field regulators provided... Yes Is the compound winding connected to the negative or positive pole... negative

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 Room. is 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 adjacent to generator.

are 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... Switches, fuses, etc. mounted on mica or ceramic insulated bars. Switchboard, 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... Yes

Is 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

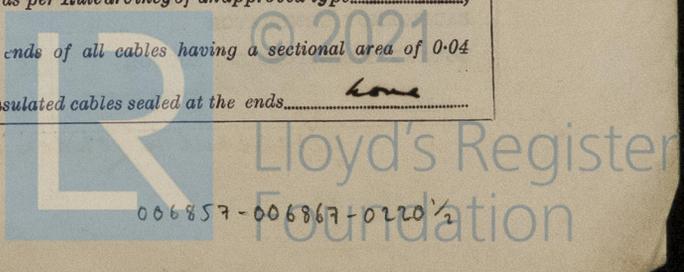
Description of Main Switchgear for each generator and arrangement of equaliser switches... Double pole switch and fuses

and for each outgoing circuit... Double pole switch and fuses.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule... Yes Instruments on main switchboard... 1 ammeters... 1 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.

Switches, Circuit Breakers and Fuses, are they as per Rule... Admissibly Pattern are the fuses an approved type... Admissibly Pattern 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... None, 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... Admissibly Pattern

Cables, 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... state maximum fall of pressure between bus bars and any point under maximum load... 4.3 Volts 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... None



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.

THE LYTHAM SHIPBUILDING and
 ENGINEERING COMPANY, LIMITED

R. Friedenthal

Electrical Engineers.

Date 29-8-46

COMPASSES.

Minimum distance between electric generators or motors and standard compass 35 ft

Minimum distance between electric generators or motors and steering compass 35 ft

The nearest cables to the compasses are as follows:—

A cable carrying 20 Ampères 4 feet from standard compass 6 feet from steering compass.

A cable carrying 20 Ampères 4 feet from standard compass 4 feet from steering compass.

A cable carrying 10 Ampères 8 feet from standard compass 10 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 4 1/2 degrees on any course in the case of the standard compass, and 4 1/2 degrees on any course in the case of the steering compass.

THE LYTHAM SHIPBUILDING and
 ENGINEERING COMPANY, LIMITED

R. Friedenthal

Builder's Signature

Date 29-8-46

Is this installation a duplicate of a previous case No If so, state name of vessel

Plans. Are approved plans forwarded herewith No If not, state date of approval 10.12.42

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 the vessel has been installed under special survey in accordance with the approved plans & specifications. On completion the installation was tested under full working conditions & found satisfactory. The materials & workmanship are good.

noted there 16.9.46

Total Capacity of Generators 10 Kilowatts.

The amount of Fee ... £ 20 : 0 : 0 When applied for, 4 SEP 1946

Travelling Expenses (if any) £ 2 : 7/2d When received, 19.....

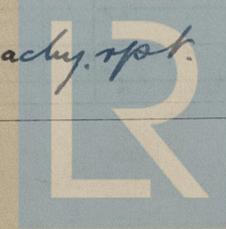
W. H. Haffner
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute LIVERPOOL 10 SEP 1946

REL 20 SEP 1946

Assigned Transmit to London.

See F.E. machy. rpt.



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5m. 4.38.—Transfer. (MADE AND PRINTED IN ENGLAND.)
 (The Surveyors are requested not to write on or below the space for Committee's Minute.)

M.L.D