

28 JUL 1943

Rpt. 13.

No. 119768

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report... 5.7.43... When handed in at Local Office... 9.7.43... Port of... Liverpool...
No. in Survey held at... Rydam Station... Date, First Survey... 7/4/43... Last Survey... 25/6/43...
Reg. Book... on the... S.S. "FRESHPOOL" (Number of Visits... 4...)

Built at... Rydam... By whom built... Rydam S.B. Eng. Co. Ltd... Yard No... 872... Tons { Gross... 283. Net... 92.
Owners... The Admiralty... Port belonging to... When built... 1943.

Electrical Installation fitted by... Rydam S.B. Eng. Co. Ltd... Contract No... 872... When fitted... 1943.
Is 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... Voltage of supply for Lighting... 110.
Heating... Power... Direct or Alternating Current, Lighting... Power... 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... Are turbine emergency governors fitted with a trip switch as per Rule...
Generators, are they compound wound... Are they level wound under working conditions...
Are more than one generator is fitted are they arranged to run in parallel...
Are the compound winding connected to the negative or positive pole...
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...
Are the lubricating arrangements and the construction of the generators as per rule...
Position of Generators... In Engine Room

is the ventilation in way of generators satisfactory... are they clear of inflammable material...
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...
are the bedplates and frames earthed... and the prime movers and generators in metallic contact...
Switchboards, where are main switchboards placed... In Engine Room adjacent to generators

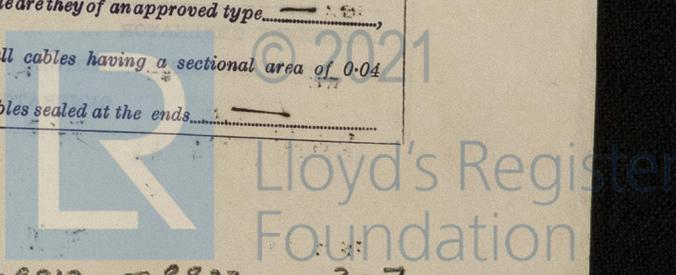
are they in accessible positions, free from inflammable gases and acid fumes... are they protected from mechanical injury and damage from water, steam and oil...
if situated near unprotected combustible material state distance from same horizontally... and vertically...
what insulation material is used for the panels...
if of synthetic insulating material is it an Approved Type... if of semi-insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule...
Is the frame effectually earthed...
Is the construction as per Rule... including accessibility of parts... absence of fuses on the back of the board... individual fuses to pilot and earth lamps, voltmeters, etc... locking of screws and nuts... labeling of apparatus and fuses... fuses on the "dead" side of switches...
Description of Main Switchgear for each generator and arrangement of equaliser switches... Double pole switch

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

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule... Instruments on main switchboard...
ammeters... 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... are the fuses an approved type... are all fuses labelled as per Rule...
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...

Cables, are they insulated and protected as per the appropriate Tables of the Rules... 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... are the ends of all cables having a sectional area of 0.04 square inch and above provided with soldering sockets...
Are paper insulated and varnished cambric insulated cables sealed at the ends...



008812 - 008822 - 0307

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. *But Cable case had covered, run in galvanized conduit on deck.*

Checked & checked & approved on approved plans in machinery spaces & general. Protection provided as required.
J.A. Meredith Electrical Engineers. Date 6.7.43

COMPASSES.

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

Minimum distance between electric generators or motors and steering compass *30 ft* Yes

The nearest cables to the compasses are as follows:—

A cable carrying *.20* Ampères *in* feet from standard compass *6* feet from steering compass Yes

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

A cable carrying *5.5* Ampères *8* feet from standard compass *10* feet from steering compass Yes

Have the compasses been adjusted with and without the electric installation at work at full power *Yes* 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.

J.A. Meredith Builder's Signature. Date 6.7.43

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

Plans. Are approved plans forwarded herewith Yes 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 this vessel has been fitted on board under special survey and in accordance with the approved plans and specification. The equipment was tested under full working conditions and found satisfactory. The materials & workmanship are good.* Yes

10 110 91 500 Steam Engine.

Total Capacity of Generators *10* Kilowatts.

The amount of Fee ... £ 10 : 0 : 0 *When applied for 18.23 JUL 1943*

Travelling Expenses (if any) £ 1 : 7/8 *When received*

Committee's Minute *LIVERPOOL 27 JUL 1943*

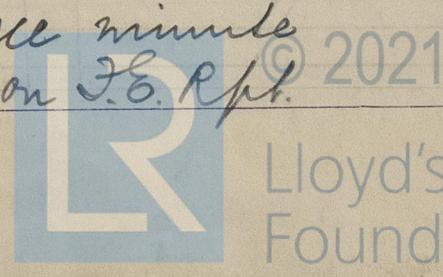
Assigned *Transmit to London.*

Noted
J.F.
19/7/43
Surveyor to Lloyd's Register of Shipping.

FRI. 6 AUG 1943
See minute on J.E. Rpt.

CP
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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.)



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