

Rpt. 13.

No. 126975.

# REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report... 11-3-48 When handed in at Local Office... 19... Port of... LIVERPOOL Received at London Office... 5 MAY 1948

No. in Survey held at... NORTHWICH. Reg. Book. Date, First Survey... 17/5/48 Last Survey... 9/31 1948 (Number of Visits... 2)

on the... M.V. "MOEARA" Built at... NORTHWICH. By whom built... ISAAC AYBLOTT & SONS LTD. Yard No. 674 When built... 1948

Owners... Port belonging to... Electrical Installation fitted by... THE SUNDERLAND FORGE & ENG. CO. LTD. Contract No. 674 When fitted... 1948

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... Two wire Voltage of supply for Lighting... 110

Heating... Power... Direct or Alternating Current, Lighting... D.C. 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... 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... 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... Switchboard for 1 1/2 Kw set mounted on 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... 1 1/2 Kw - Switches of fused mounted on steel plate panel 1 Kw - Switches... 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... Approved, 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... Two 1 1/2 Kw generators - Single pole switch fuse on each pole, also used for protection and control of the one outgoing circuit. For 1 Kw generators - D.P. switch fuse. D.P. Change-over switch fitted to select load and for each outgoing circuit... on either generators.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule... Instruments on main switchboard... 1 1/2 Kw - one ammeters... 1 Kw - one 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... Load Ramps

Switches, ~~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... Yes

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... 0.5 Volt, are the ends of all cables having a sectional area of 0.04 square inch and above provided with soldering sockets... 104 Are paper insulated and varnished cambric insulated cables sealed at the ends... None



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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.

Per Pro THE SUNDERLAND FORGE & ENG. Co. Ltd.

*[Signature]*

Electrical Engineers.

Date 12-3-48

COMPASSES.

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

Minimum distance between electric generators or motors and steering compass..... 20ft.

The nearest cables to the compasses are as follows:—

A cable carrying 1.5 Ampères ..... feet from standard compass 5 feet from steering compass.

A cable carrying 0.2 Ampères ..... feet from standard compass hi 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 ..... degrees on ..... course in the case of the standard compass, and hi degrees on any course in the case of the steering compass.

FOR ISAAC FIMBLOTT & SONS LTD.

*[Signature]*

Builder's Signature.

Date 16-3-48

Managing Director.

Is this installation a duplicate of a previous case ..... Yes If so, state name of vessel "MOEBAI" Pufflots No 673

Plans. Are approved plans forwarded herewith ..... No If not, state date of approval 5.7.46

Certificates. Are certificates of test for motors engaged on essential services and generators forwarded herewith 1/2 Kw Generators only.

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 installed under special survey & in accordance with the Rules for Electrical Equipment, approved plans & specification. The owners have supplied an additional re-conditioned 1.1KW generator driven from main engine, complete with switchboard and automatic voltage control. This generator together with the remainder of the installation was tested under full working conditions and found satisfactory. The materials & workmanship are good.

Notes. See 12/5/48.

Total Capacity of Generators 2.5 Kilowatts.

The amount of Fee ... £ 5 : 0 : 0 Specification £ 1 : 5 : 0

When applied for 30 APR 1948

Travelling Expenses (if any) £ : : When received. ....19....

*[Signature]*

Surveyor to Lloyd's Register of Shipping.

Committee's Minute LIVERPOOL - 4 MAY 1948

Assigned See Minute on H. back Rps.

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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