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Rpt. 13.

No. 71039

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office.....

118 SEP 1946

Date of writing Report... 7th SEPTEMBER 1946 When handed in at Local Office... 16th SEP 1946 Port of... GLASGOW

No. in Survey held at... GREENOCK Date, First Survey... 14th AUGUST Last Survey... 23rd AUGUST 1946
Reg. Book. (Number of Visits... 3)

89217 on the 'THE EMPEROR' Tons { Gross... 1058
Net...

Built at... GREENOCK By whom built... G. BROWN & CO. (MARINE) LTD Yard No... 235 When built... 1946

Owners... J. HAY & SONS, LTD Port belonging to... GLASGOW

Electrical Installation fitted by... J. WILLIS & SONS LTD PORT GLASGOW Contract No... 235 When fitted... 1946

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

Have plans been submitted and approved... YES System of Distribution... TWO WIRE 440 Voltage of supply for Lighting... 110

Heating... Power... Direct or Alternating Current... Lighting... B.C. Power... 3 If Alternating Current state periodicity... L.C. 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

FORWARD ACCOMMODATION... Generators, are they compound wound... YES are they level compounded under working conditions... YES

SIGNALLING... 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... and the results found as per rule... Are the lubricating arrangements and the construction

of the generators as per rule... YES Position of Generators... STARBOARD SIDE 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... NEAR 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... MIOCARTA, 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... 1 - 200 AMP. D.P.

KNIFE PATTERN SWITCH WITH 150A HRTIC TYPE FUSES.

and for each outgoing circuit... 60, 30 OR 15 AMP. D.P. KNIFE PATTERN SWITCHES WITH 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... 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... WIE

state maximum fall of pressure between bus bars and any point under maximum load... 5 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...

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. CABLES IN STEEL PIPE.

MACHINERY OFFICE J. Willis & Sons, Glasgow, and J. H. Patrick, Glasgow, Electrical Engineers.

Date 11th Sept, 1946

RECOMMENDATION: L.C. CABLE CLIPPED TO WOODWORK.

COMPASSES.

Minimum distance between electric generators or motors and standard compass 118 FEET

Minimum distance between electric generators or motors and steering compass 117 FEET

The nearest cables to the compasses are as follows:—

A cable carrying 1 Ampères LED INTO feet from standard compass LED INTO feet from steering compass.

A cable carrying 3 Ampères 9 feet from standard compass 7 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 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.

Builder's Signature. Date YES

Is this installation a duplicate of a previous case YES YES If so, state name of vessel THE MONARCH

Plans. Are approved plans forwarded herewith YES If not, state date of approval

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

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 installed under the Survey of the British Corporation. It has been examined during installation, tested under working conditions and found in good order and in accordance with the Rules of Lloyd's Register for Electrical Equipment. The materials and workmanship are good. It is in my opinion eligible for classification and the record of LMC. 8,46 as recommended in Greenock Report N° 23377.

YES YES YES

1 15 110 136 550 STEAM ENGINE

Total Capacity of Generators 15 Kilowatts.

The amount of Fee £ 4.4.0 When applied for, 37.072 1 152 W.E. L.C.

Travelling Expenses (if any) £ : ✓ : When received, 19. Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 17 SEP 1946

Assigned See Gen Y. E. Report 23377

511,438—Transfer. (MADE AND PRINTED IN ENGLAND) (The Surveyors are requested not to write on or below this space for Committee's Minute.)

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