

# REPORT ON ELECTRICAL EQUIPMENT.

JUL 31 1940

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office.....

Date of writing Report 6<sup>th</sup> July 40. When handed in at Local Office 30.7.40 Port of GLASGOW.

No. in Survey held at PORT GLASGOW & GLASGOW. Date, First Survey (1940) Mar 19<sup>th</sup> Last Survey 4<sup>th</sup> July 1940.  
Reg. Book. (Number of Visits. 10)

19067 on the S.S. MARIETTA E. Tons { Gross 7627.68  
Net.....

Built at PORT GLASGOW. By whom built WM. HAMILTON & CO. LTD. Yard No. 439 When built 1940.

Owners COUNTIES SHIP MANAGEMENT CO. LTD. Port belonging to LONDON.

Electrical Installation fitted by CAMPBELL & ISHERWOOD LTD. Contract No. 439 When fitted 1940.

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 Low Voltage Voltage of supply for Lighting 110.

Heating No. Power 110. Direct or Alternating Current, Lighting D.C. Power D.C. If Alternating Current state frequency - Prime Movers, -

has the governing been tested and found efficient when the whole 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 positive

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 Main generator in engine room Aux'l generator special compartment top of 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 generators.

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 linoleum, 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 D.P. Switch and fuses

and for each outgoing circuit SP. G.O. Switch and D.P. fuses

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule -. Instruments on main switchboard 2

ammeters 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 lamps



1192-0117 1/2



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.

CAMPBELL & ISHERWOOD LTD.

*B. Chapman*

Electrical Engineers.

Date 9.7.40

COMPASSES.

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

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

The nearest cables to the compasses are as follows:—

A cable carrying 36 Ampères led into from standard compass led into from steering compass.

A cable carrying 5.1 Ampères 16 feet from standard compass 14 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 *Y.*

Has the effect of switching on and off circuits, motors and other electro-magnetic apparatus within the vicinity of the compasses been noted *Y.*

The maximum deviation due to electric currents was found to be nil degrees on *Y.* course in the case of the standard compass, and nil degrees on *Y.* course in the case of the steering compass.

FOR WILLIAM HAMILTON & CO. LTD.

*W. Hamilton*

Builder's Signature.

Date 13th July 1940

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

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 full working conditions and found satisfactory. The materials and workmanship are good.*

*Noted  
7/8/40*

*206  
29/7/40*

Total Capacity of Generators 24 Kilowatts.

The amount of Fee ... £ 19 : 10 :

When applied for, *at 19/10/40*

Travelling Expenses (if any) £ :

When received, *19th July 1940*

*S. G. Priddy*

Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 30 JUL 1940

Assigned SEE ACCOMPANYING MACHINERY REPORT.

2m, 10, 38.—Transfer. (MADE IN ENGLAND.) (The Surveyors are requested not to write on or below the space for Committee's Minute.)

