

# REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

115 DEC 1954

Date of writing Report 16-11-1954 When handed in at Local Office 27.11.1954 Port of GLASGOW

No. in Survey held at PORT GLASGOW Date, First Survey 28.9.54 Last Survey 10.11.1954

Reg. Book. (No. of Visits 3)

90868 on the HOPPER BARGE "J. P. WEBB" Tons Gross 967.49 Net 299.80

Built at PORT GLASGOW By whom built FERGUSON BROS. (PORT GLASGOW) LTD. Yard No. 408 When built 1954

Owners MELBOURNE HARBOUR TRUST COMMISSIONERS Port belonging to MELBOURNE

Installation fitted by J. CHARTERS When fitted 1954

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

Plans, have they been submitted and approved Yes System of Distribution Two wire Voltage of Lighting 110

Heating — Power — D.C. or A.C., Lighting D.C. Power — If A.C. state frequency —

Prime Movers, has the governing been found as per Rule when full load is thrown on and off Yes Are turbine emergency governors fitted with a trip switch — Generators, are they compound wound Yes, and level compounded under working conditions Yes

Are the generators arranged to run in parallel — Is the compound winding connected to the negative or positive pole Negative

Have machines 100 kw. and over 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 Yes Position of Generators on flat, starboard side of engine room.

is the ventilation in way of generators satisfactory Yes are they clear of inflammable material and protected from mechanical injury and damage from water, steam and oil Yes Switchboards, where are main switchboards placed on flat, starboard side of engine room, adjacent to generator.

are they in accessible positions, free from inflammable gases and acid fumes and protected from mechanical injury and damage from water, steam and oil Yes, what insulation is used for the panels Paralox insulated steel rod construction, 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 construction as per Rule, including locking of screws and nuts Yes Description of Main Switchgear for each generator and arrangement of equaliser switches Double pole knife type changeover switch and fuses

and the switch and fuse gear (or circuit breakers) for each outgoing circuit Double pole knife type switch and fuses.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule — Instruments on main switchboard 1 ammeters 1 voltmeters — synchronising devices. For compound machines in parallel are the ammeters and reverse current protection devices connected on the pole opposite to the equaliser connection — Earth Testing, state means provided Earth lamps Preference Tripping, state if provided No, and tested —

Switches, Circuit Breakers and Fuses, are they as per Rule Yes, are the fuses an Approved Type Yes make of fuses Artic, are all fuses labelled Yes If circuit breakers are provided for the generators, at what overload do they operate —, and at what current do the reverse current protective devices operate — Cables, are they insulated and protected as per Rule 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 less than 6 1/8 volts. Are all paper insulated and varnished cambric insulated cables sealed at the ends Yes

Are all the cable runs in accessible positions not exposed to drip or accumulation of water or oil, high temperatures or risk of mechanical damage Yes, are any cables laid under machines or floorplates Yes, if so, are they adequately protected Yes State type of cables (if in conduit this should also be stated) in machinery spaces VIRLC, VELC, & VIRLC in pipe alleys. VIRLC and laundries — State how the cables are supported or protected Machinery spaces LC cables clipped to steel plate or perforated tray. Main LC cables clipped to perforated tray or in galvanised steel pipe. Recommendation LC cables clipped to steelwork or woodwork.

Are all lead sheaths, armouring and conduits effectually bonded and earthed Yes Are all cables passing through decks and watertight bulkheads provided with deck tubes or watertight glands Yes, where unarmoured cables pass through beams, etc., are the holes effectively bushed Yes Refrigerated chambers, are the cables and fittings as per Rule —

Have refrigeration fan motors been constructed under survey — and test certificates supplied —

Are the motors accessible for maintenance at all times —



Insulation Tests, has the insulation resistance of all circuits and apparatus been tested and found satisfactory..... Yes

[illegible][illegible]

NOTE.—Use Rpt. 13 Continuation Sheet if the above space is insufficient.



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.

*J. Charters*

Electrical Contractors.

Date

*17th Nov. '54*

#### COMPASSES.

Have the compasses been adjusted under working conditions

*Yes*

FERGUSON BROTHERS (PORT-GLASGOW) LTD

*J. Ferguson*

Builder's Signature.

Date *24-11-54*

DIRECTOR

Have the foregoing descriptions and schedules been verified and found correct

*Yes*

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

*24-8-1954*

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

*Yes*

General Remarks. (State quality of workmanship and materials, opinions as to class, etc.)

*The electrical installation of this vessel has been fitted on board under Special Survey, tested under working conditions and found satisfactory. The quality of materials and workmanship is good.*

*Noted JS*

*29/12/54*

Total Capacity of Generators *10* ✓ Kilowatts.

The amount of Fee ...

... £ *10* : - :

When applied for,

*at LK* 19

When received,

19

Travelling Expenses (if any) £ - : *9* :

*Fred B. Mont*  
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

GLASGOW 14 DEC 1954

Assigned *Sec Crk. FE. McHy. R/t. 25268*



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Foundation