

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

WED. DEC. 20 1922

Date of writing Report 18-12-1922 When handed in at Local Office 18-12-1922 Port of Glasgow

No. in Survey held at GLASGOW.

Date, First Survey 10. 10. 22 Last Survey 21. 10. 1922

Reg. Book

(Number of Visits.....)

55283 on the S.S. BRITISH MERCHANT.

Tons { Gross 7400.
Net

Built at DALMOIR.

By whom built MESSRS W^M BEARDMORE Yard No. 622 When built 1922

Owners THE BRITISH TANKER CO LTD

Port belonging to LONDON.

Electric Light Installation fitted by MESSRS W^M BEARDMORE & CO LTD Contract No. 622 When fitted 1922.

System of Distribution 220 VOLT 50 PERIODS FOR POWER 110 VOLT D.C. FOR LIGHTING

Pressure of supply for Lighting 110 volts, Heating NIL volts, Power 220 volts.

Direct or Alternating Current, Lighting DIRECT CURRENT Power ALTERNATING CURRENT

If alternating current system, state frequency of periods per second 50.

Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off YES

Generators, do they comply with the requirements regarding overload YES, are they compound wound —

are they over compounded 5 per cent. —, if not compound wound state distance between each generator —

Where more than one generator is fitted are they arranged to run in parallel YES, is an adjustable regulating resistance fitted in series with each shunt field YES

Are all terminals accessible and clearly marked YES, are they so spaced or shielded that they cannot be accidentally earthed, or short circuited YES Are the lubricating arrangements of the generators as per Rule YES

Position of Generators

is the ventilation in way of the generators satisfactory YES, are they clear of all inflammable material YES

if situated near unprotected woodwork or other combustible material, state distance of same horizontally from or vertically above the generators — and —, are the generators protected from mechanical injury and damage from water, steam or oil YES

are their axis of rotation fore and aft YES

Earthing, are the bedplates and frames of the generating plant efficiently earthed YES are the prime movers and their respective generators in metallic contact YES

Main Switch Boards, where placed ON PLATFORM IN ENGINE ROOM

If the generators and main switchboard are not placed in the same compartment, is each generator provided with a fuse on each insulated pole as near as possible to the terminals of the generator, additional to that provided on the main switchboard —

Switchboards, are they placed in accessible positions, free from inflammable gases and acid fumes YES

are they protected from mechanical injury and damage from water, steam or oil YES, if situated near unprotected woodwork or other combustible material, state distance of same horizontally from or vertically above the switchboards — and —

are they constructed wholly of durable, incombustible non-absorbent materials YES, is all insulation of high dielectric strength and of permanently high insulation resistance YES, if semi-insulating material is used, are all conducting parts connected to one pole insulated from the slab with mica or micánite and the slab similarly insulated from its framework YES, and is the frame effectively earthed YES

Are the following fittings as per Rule, viz.: — spacing or shielding of live parts YES, accessibility of all parts YES, absence of fuses on back of board YES, proportion of omnibus bars YES, individual fuses to voltmeter, pilot or earth lamp YES, connections of switches YES

Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches CIRCUIT BREAKER & 3 POLE CHANGE-OVER SWITCH FOR EACH GENERATOR

3 POLE SWITCH & FUSES FOR EACH OUT GOING CIRCUIT FOR POWER & D.P. SWITCH & FUSES FOR LIGHTS

Instruments on main switchboard 4 ammeters 2 voltmeters 1 synchronising device for paralleling purposes.

Earth Testing, state what means are provided at the main switchboard for indicating the state of the insulation of the system EARTH INDICATING LAMPS.

Switches, Circuit Breakers and Fusible Cut-outs, do these comply with the requirements of the Rules YES

Section and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule YES.



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Lloyd's Register
Foundation

W999-0144

All Conductors are of annealed copper conforming to British Standard Specification No. 7.

The Insulated Conductors are guaranteed to withstand the immersion and resistance tests specified in the Rules.

The foregoing is a correct description.

FOR WILLIAM BEARDMORE & CO., LIMITED

Electrical Engineers.

Date 12.12.22

COMPASSES.

Distance between electric generators or motors and standard compass 250 FEET TO GENERATOR 20 FEET TO W/T ROTARY

Distance between electric generators or motors and steering compass 245 " " " 15 " " "

The nearest cables to the compasses are as follows:—

A cable carrying 10 Amperes 10 feet from standard compass 7 feet from steering compass.

A cable carrying 20 Amperes 22 feet from standard compass 20 feet from steering compass.

A cable carrying 3 Amperes 6 feet from standard compass 6 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 0 degrees on ANY course in the case of the standard compass, and 0 degrees on ANY course in the case of the steering compass.

FOR WILLIAM BEARDMORE & CO., LIMITED

H. Burns

Builder's Signature.

Date 12.12.22

Is this installation a duplicate of a previous case? ☒ If so, state name of vessel ☒

General Remarks (State quality of workmanship, opinions as to class, &c.)

This installation has been fitted on board under special survey. Tested under full working conditions & found satisfactory in every way. The workmanship in my opinion is of a high standard.

It is submitted that this vessel is eligible for THE RECORD.

Elec. Light

27/12/22

Total Capacity of Generators 202 Kilowatts

The amount of Fee ... £ 36 : 11-0

When applied for, 4/11/22

Travelling Expenses (if any) £ - : -

When received, 11/11/22

J. S. Rankin

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

GLASGOW 19 DEC 1922

Assigned

Elec. Light

transmitted to London



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