

Rpt. 13.

No. 45480

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 31 MAR 1926

Date of writing Report 18.3.1926 When handed in at Local Office 27.3.26 19 Port of GLASGOW.

No. in Survey held at GLASGOW. Date, First Survey 21st Jan. Last Survey 11th Mar 1926
Reg. Book. (Number of Visits 8)40382. on the M. V. "OAKBANK" Tons { Gross 5154
Net ✓

Built at GOVAN. By whom built HARLAND & WOLFF LTD Yard No. 685 When built 1926.

Owners MESSRS A. WEIR & CO Port belonging to GLASGOW.

Electric Light Installation fitted by MESSRS HARLAND & WOLFF LTD Contract No. 685 When fitted 1926.

System of Distribution

Two Wires

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

Direct or Alternating Current, Lighting

Direct

Power

Direct

If alternating current system, state frequency of periods per second —

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 Yes

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

Where more than one generator is fitted are they arranged to run in parallel } 2 Diesel Dynamos in pair an adjustable regulating resistance fitted in series with each shunt field } 1 C.O. to steam.

Are all terminals accessible and clearly marked Yes, are they so spaced or shielded that they cannot be accidentally earthed, or short circuited Yes

Position of Generators

Port side of Engine Room.

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

Aft end of Engine Room over thrust recess

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 micanite 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 3 Double pole circuit

breakers for generators, two interlocked single pole switch for paralleling diesel dynamos
double pole change over switches + 2 single pole fuses for each outgoing circuit

Instruments on main switchboard 3 ammeters 2 voltmeters — 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 Two lamps + two

linked single pole switches across mains. Mid point of lamps earthed.

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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If portable lamps for use in dangerous spaces are supplied, are they of a type approved by the Home Office

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 HARLAND AND WOLFF, LIMITED.

John Dickison

Director.

Electrical Engineers.

Date *26/3/26.*

COMPASSES.

Distance between electric generators or motors and standard compass

90 feet

Distance between electric generators or motors and steering compass

88 feet

The nearest cables to the compasses are as follows:—

A cable carrying *5* Amperes *12* feet from standard compass *6* feet from steering compass.

A cable carrying *3.4* Amperes *18* feet from standard compass *12* feet from steering compass.

A cable carrying *1.5* Amperes *12* 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 *nil* degrees on *all the* course in the case of the standard compass, and *nil* degrees on *all the* course in the case of the steering compass.

FOR HARLAND AND WOLFF, LIMITED.

John Dickison

Builder's Signature.

Director.

Date *26/3/26.*

Is this installation a duplicate of a previous case

Yes.

If so, state name of vessel

M.V. Olivebank.

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 and found satisfactory. The workmanship was found to be good and sound.

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

Elec. Light.

J.B. Rankin
1/4/26.

Total Capacity of Generators *195* Kilowatts

The amount of Fee ... £ *36.5.0*

When applied for, *18/3/26*

Travelling Expenses (if any) £

When received, *6.4.26*

J.B. Rankin
Surveyor to Lloyd's Register of Shipping.

Committee's Minute *GLASGOW 8 MAR 1926*

Assigned *Elec. Light.*



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Im 024.—Transfer.
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

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27/3/26