

# REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 15 DEC 1924

Date of writing Report 9. 12. 1924 When handed in at Local Office 15. 12. 1924 Port of Glasgow

No. in Survey held at GOVAN

Date, First Survey 24. 10. 24 Last Survey 6. 12. 1924

Reg. Book.

(Number of Visits 2)

88253 on the M.V. "COMLIEBANK"

Tons { Gross 5149  
Net

Built at GOVAN By whom built MESSRS HARLAND &amp; WOLFE Yard No. 663g When built 1924

Owners MESSRS ANDREW WEIR &amp; CO Port belonging to GLASGOW.

Electric Light Installation fitted by MESSRS HARLAND &amp; WOLFE LTD Contract No. 663g When fitted 1924

System of Distribution Two Wire

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 Driven in Parallel 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 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 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 Triple Pole Switches & D.P. Circuit Breakers for Generators, & D.P. Change-over Switches & 2 S.P. 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 S.P. 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.....

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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.

MR HARLAND AND WOLFF, LIMITED.

John Dickison.

Electrical Engineers.

Date 13th Dec 1924

Director.

#### 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.

MR HARLAND AND WOLFF, LIMITED.

John Dickison

Builder's Signature.

Date 13th Dec 1924

Director.

Is this installation a duplicate of a previous case. No. If so, state name of vessel M.V. Cedarbank.

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 of a high standard.

Elec. Light.

17/12/24

Total Capacity of Generators 196. Kilowatts

The amount of Fee ... £ 36.5.0

When applied for,

9.12.24

Travelling Expenses (if any) £

When received,

See debit book.

J. S. Rankin

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

GLASGOW 16 DEC 1924

Assigned

Elec. Light



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