

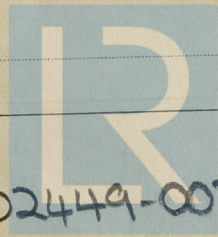
# REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 24 Feb 1926

Date of writing Report 16 - 2 1926 When handed in at Local Office 20. 2. 26 19 Port of Glasgow  
 No. in Survey held at Govan Date, First Survey 3rd Dec 1925 Last Survey 5th Feb 1926  
 Reg. Book. 40377 on the M. V. "Clivebank" (Number of Visits.....)  
 Tons { Gross 5154  
 Net  
 Built at Govan By whom built Messrs. Harland & Wolff Yard No. 684 When built 1926.  
 Owners Messrs. Andrew Weir & Co. Port belonging to  
 Electric Light Installation fitted by Messrs. Harland & Wolff Govan Contract No. 684 When fitted 1926.

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 1 C.D. to steam.*  
 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 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 with single pole switch for paralleling Diesel Dynamos. Double pole change over switch & 2 single pole fuses for outgoing circuits*  
 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 *2 lamps & 2 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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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.

FOR HARLAND & WOLFF, LTD.  
*John Dickison* Electrical Engineers.  
Director.

Date 16-2-26.

#### 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 & WOLFF, LTD.  
*John Dickison* Builder's Signature.  
Director.

Date 16-2-26

Is this installation a duplicate of a previous case

No

If so, state name of vessel

M.V. Severn bank

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.

D.T. 2/3/26

Total Capacity of Generators 195 Kilowatts

The amount of Fee ... £ 36.5.0 : 15/2/26

Travelling Expenses (if any) £ : : 13/3/26

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

Committee's Minute GLASGOW 23 FEB 1926

Assigned Elec. Light.



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