

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office... 24 FEB 1926

Date of writing Report 29. 12. 1925 When handed in at Local Office 22. 2. 26 19 Port of GLASSGOW.

No. in Survey held at GLASSGOW. Date, First Survey 21st Dec Last Survey 31st Dec 1925
Reg. Book. 39688 on the M.V. "KING MALCOLM" (Number of Visits.....)Tons { Gross 5064
Net

Built at GLASSGOW. By whom built MESSRS D & W. HENDERSON Yard No. 692 When built 1925.

Owners THE BRITISH MOTORSHIP CO LTD Port belonging to LONDON.

Electric Light Installation fitted by MESSRS HARLAND & WOLFF LTD Contract No. 692. When fitted 1925.
(GOVAN)

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 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

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

Port side of 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 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 with interlocked D.P. switch for paralleling.
D.P. Switches and two D.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 and

two linked D.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

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 Dickenson Electrical Engineers.
Director,

Date *19th February 1926*

COMPASSES.

Distance between electric generators or motors and standard compass

152 ft.

Distance between electric generators or motors and steering compass

158 ft.

The nearest cables to the compasses are as follows:—

A cable carrying *3.4* Amperes *10* feet from standard compass *8* feet from steering compass.

A cable carrying *20.8* Amperes *30* feet from standard compass *26* feet from steering compass.

A cable carrying *44.4* Amperes *30* feet from standard compass *26* 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

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 Dickenson Builder's Signature.
Director,

Date *19th February 1926*

Is this installation a duplicate of a previous case *no.* 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 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

W.A. 2/2/26

Total Capacity of Generators *195* Kilowatts

The amount of Fee ... *£36.5.0* : When applied for, *28/12/25*

Travelling Expenses (if any) £ : When received, *30/12/25*

Committee's Minute *GLASGOW 23 FEB 1926*

Assigned *Elec Light*

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



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