

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

12 JAN 1927

Date of writing Report 21.12.1926 When handed in at Local Office 8.1.1927 Port of GLASGOW

No. in Survey held at GLASGOW. Date, First Survey 30th Aug Last Survey 24th Decr 1926
 Reg. Book. 89662 on the M. V. "KOOLINDA" (Number of Visits 13)

Built at GOVAN By whom built HARLAND WOLFF LTD Yard No. 728 Tons { Gross
 Net
 When built 1926.

Owners THE GOVERNMENT OF WESTERN AUSTRALIA Port belonging to FREMANTLE

Electric Light Installation fitted by MESSRS HARLAND & WOLFF LTD Contract No. 728 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 ✓ PowerIf 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 YESAre 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 YESPosition of Generators 2 ON PORT SIDE OF MAIN MOTOR ROOM, 1 ON STARBOARD SIDE OF MAIN MOTOR ROOM,is the ventilation in way of the generators satisfactory YES ✓, are they clear of all inflammable material YESif 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 YESEarthing, are the bedplates and frames of the generating plant efficiently earthed YES ✓ are the prime movers and their respective generators in metallic contact YESMain Switch Boards, where placed ON PLATFORM AFT END OF MAIN MOTOR ROOM OVERTHRUST BLOCKSIf 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 poleinsulated 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 partsYES ✓, accessibility of all parts YES ✓, absence of fuses on back of board YES ✓, proportion of omnibusbars 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 D.P. CIRCUIT BREAKERINTERLOCKED WITH S.P. EQUALISING SWITCH FOR EACH GENERATOR; DOUBLE POLE CIRCUIT BREAKERS FOR EACH SIDE OF BOTH RING MAINS & D.P. SWITCH & FUSES FOR OTHER CIRCUITSInstruments on main switchboard 4 ammeters 4 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 YESSection and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule YES.

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013409-01341602921/2

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.

HARLAND AND WOLFE LIMITED.

John Dickenson
Managing Director

Electrical Engineers.

Date *31st Dec 1926*

COMPASSES.

Distance between electric generators or motors and standard compass

87 ft

Distance between electric generators or motors and steering compass

82 ft

The nearest cables to the compasses are as follows:—

A cable carrying *5/28* Amperes *12* feet from standard compass *10* feet from steering compass.

A cable carrying *7* Amperes *12* feet from standard compass *10* feet from steering compass.

A cable carrying *.5* Amperes *8* feet from standard compass *16* 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 WOLFE LIMITED.

John Dickenson, Builder's Signature.
Managing Director.

Date *31st Dec 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.D.
17/1/27

Total Capacity of Generators *345* Kilowatts

The amount of Fee ... *£40.2.6.* : *29.12.26*

Travelling Expenses (if any) £ : *19/1/27*

Committee's Minute *GLASGOW 11 JAN 1927*

Assigned *Elec. Light.*

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



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