

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

TUE. 4 MAY 1924

Date of writing Report 5th May 1924 When handed in at Local Office 5th May 1924 Port of Leith

No. in Survey held at Leith Date, First Survey 9 April 1924 Last Survey 29th April 1924
 (Number of Visits...6)

Reg. Book. on the Steel Screw Ferry "Koondooloo" Tons { Gross 523.88
 Net 235.75

Built at Leith By whom built Hawthornes Ltd Yard No. 187 When built 1924

Owners Sydney Ferris Ltd Sydney Port belonging to Sydney

Electric Light Installation fitted by Hawthornes Ltd Leith Contract No. 187 When fitted 1924

System of Distribution Two wire

Pressure of supply for Lighting 110 volts, Heating ✓ volts, Power ✓ volts.

Direct or Alternating Current, Lighting Direct current Power ✓

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. ✓, if not compound wound state distance between each generator ✓

Where more than one generator is fitted are they arranged to run in parallel ✓, is an adjustable regulating resistance fitted in series with each shunt field ✓

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 in Engine room on stool above bottom platform

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 in Engine room on bulkhead at top platform in view of

Lugmuer at Starting platform 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 D.P. Main switch

D.P. Main fuses. Branch S.P. switches Branch D.P. fuses

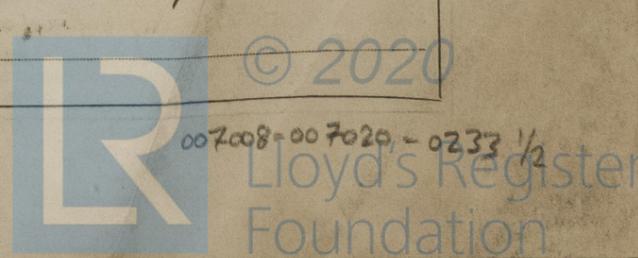
Instruments on main switchboard one ammeters, one voltmeters, ✓ synchronising device for paralleling purposes.

Earth Testing, state what means are provided at the main switchboard for indicating the state of the insulation of the system Earth lamps

connected between each pole and Earth

Shipping. 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.

HAWTHORNS & CO., LIMITED.
G. H. Murray Electrical Engineers. Date 2/5/24
[Signature] Shipyard Director

COMPASSES.

Distance between electric generators or motors and standard compass 45 ft
 Distance between electric generators or motors and steering compass 35 ft

The nearest cables to the compasses are as follows:—

A cable carrying 2 Ampères 10 ft feet from standard compass 5 feet from steering compass.
 A cable carrying _____ Ampères _____ feet from standard compass _____ feet from steering compass.
 A cable carrying _____ Ampères _____ feet from standard compass _____ 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 course in the case of the standard compass, and nil degrees on all course in the case of the steering compass.

HAWTHORNS & CO., LIMITED.
G. H. Murray Builder's Signature. Date 2/5/24
[Signature] Shipyard Director

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 well fitted & proved satisfactory on trial

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

[Signature]
6/5/24

Total Capacity of Generators 7 ³/₄ Kilowatts

The amount of Fee ... £ 7 : 15 : 5-5-24 When applied for,
 Travelling Expenses (if any): £ : : See debit book. When received,

A. T. Thomas
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. MAY. 9 1924

Assigned _____

Im. 3.22.—Transfer. (The Surveyors are requested not to write on or below the space for Committee's Minute.)



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