

# REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

TUE. 4 MAY 1924

Date of writing Report *5<sup>th</sup> May 1924* When handed in at Local Office *5<sup>th</sup> May 1924* Port of *Leith*

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

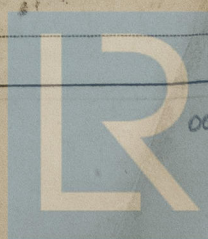
Reg. Book. on the *Steel Screw Ferry "Koondooloo"* Tons { Gross *523.88*  
Net *235.75*

Built at *Leith* By whom built *Hawthorn & Co Ltd* Yard No. *187* When built *1924*

Owners *Sydney Ferries Ltd Sydney* Port belonging to *Sydney*

Electric Light Installation fitted by *Hawthorn & Co Ltd Leith* Contract No. *187* When fitted *1924*

## System of Distribution

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*, are they clear of all inflammable material *Yes*is the ventilation in way of the generators satisfactory *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*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 *Yes*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 lamps*Earth Testing, state what means are provided at the main switchboard for indicating the state of the insulation of the system *connected between each pole and Earth*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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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*  
Shipyard Director

Electrical Engineers.

Date *2/5/24*

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*  
Shipyard Director

Builder's Signature.

Date *2/5/24*

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.

*W. A.*  
*6/5/24*

Total Capacity of Generators *7 <sup>3</sup>/<sub>4</sub>* Kilowatts

The amount of Fee ... £ *7 : 15 :* *5-5-24*

Travelling Expenses (if any): £ *See debit book*

*A. T. Thomas*

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

Im. 3. 22.—Transfer.  
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

*21 MAY 1924*



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