

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report *23rd Sept* 1928 When handed in at Local OfficePort of *Copenhagen*Received at London Office *4 OCT 1928*No. in Survey held at *Copenhagen*Date, First Survey *5th July*Last Survey *1st September 1928*

Reg. Book.

92804 on the *Steel Screw Motor Vessel "YANDRA"*(Number of Visits *18*)Tons { Gross *989.56*Net *418.38*Built at *Copenhagen*By whom built *Akt. Burmeister & Wain's**Maskin og Skibsbyggeri*Yard No. *555*When built *1928*Owners *The Adelaide Steamship Co. Ltd.*Port belonging to *Port Adelaide*Electric Light Installation fitted by *Akt. Burmeister & Wain's Maskin og Skibsbyggeri* Contract No. *555* When fitted *1928*

System of Distribution

Two conductors, Insulated system.

Pressure of supply for Lighting

110

volts, Heating

220

volts, Power

220

volts.

Direct or Alternating Current, Lighting

Direct current.

Power

*Direct current.*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 rating *Yes*, are they compound wound *Yes.*are they over compounded 5 per cent. *0 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 *Yes.*, is an adjustable regulating resistance fitted in series with each shunt field *Yes*Are all terminals accessible, clearly marked, and furnished with sockets *Yes*, are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched *Yes*

Position of Generators

*In the machinery space.*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 *Not situated near unprotected woodwork or other combustible material.*, are the generators protected from mechanical injury and damage from water, steam or oil *Yes.*are their axes 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

*At the forward end of the machinery space.*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 *Placed in same compartment.*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 *Not situated near unprotected woodwork or other combustible material.*are they constructed wholly of durable, non-ignitable 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 insulated from the slab with mica or micanite or other non-hygroscopic insulating material, and the slab similarly insulated from its framework *Yes*and is the frame effectively earthed *Yes*

Are the fittings as per Rule regarding:— 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

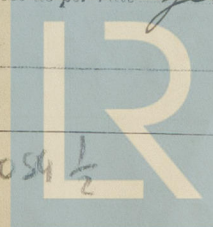
, individual fuses to voltmeter, pilot or earth lamp

Yes., connections of switches *Yes.*Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches *For each generator:**a three pole circuit breaker with overload and reversed current trip.**For each outgoing circuit: a double pole switch and a double pole fuse.*

Instruments on main switchboard

5 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 *One Voltmeter for**220 and one for 110 volts pressure is provided with Ohm scale, and the switchboard is provided with 2 sets of earth testing lamps.*Switches, Circuit Breakers and Fusible Cut-outs, do these comply with the requirements of the Rules *Yes.*Joint Boxes Section and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule *Yes.*

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If 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.

AKTIESELSKABET
BURMEISTER & WAIN
MASKIN OG SKIFTEVÆRKT

Electrical Engineers.

Date

COMPASSES.

Distance between electric generators or motors and standard compass about 14 Metres.

Distance between electric generators or motors and steering compass " 10 "

The nearest cables to the compasses are as follows:—

A cable carrying 4 Amperes 4 Metres feet from standard compass 3 Metres feet from steering compass.

A cable carrying 0.14 Amperes to lamp in feet from standard compass and in feet from steering compass.

A cable carrying ✓ Amperes ✓ 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 0 degrees on all course in the case of the standard compass, and 0 degrees on all course in the case of the steering compass.

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Builder's Signature.

Date

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.)

The whole electric lighting, heating and power installation as above described has been fitted in accordance with the requirements of the Rules, the approved plan, and the Secretary's letter E. dated the 2nd and 11th April 1928.

The material used in the installation and the workmanship are of good description in every respect.—

The whole electric installation has been tested under full power working condition and found to work satisfactorily.

Recommend the vessel to have notation in the Register Book of "Electric light."

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

Elec Light

E.D.H. 9/10/28.

Total Capacity of Generators 165 Kilowatts.

The amount of Fee ... 632.45

When applied for,

29.9.19.28.

Travelling Expenses (if any) £

When received,

6.11.19.28.

A.D. Dubouché.

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 19 OCT 1928

Assigned

Elec Light

1m.127.—Transfer.
(The Surveyors are requested not to write on or below the space for Committee's Minute.)



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