

Rpt. 13.

No. 17532

**REPORT ON ELECTRIC FITTINGS.**

(OTHER THAN FOR THE PROPULSION OF THE VESSEL) 14 FEB 1929

Date of writing Report 7<sup>th</sup> Feb<sup>r</sup> 1929 When handed in at Local Office 13<sup>th</sup> Feb<sup>r</sup> 1929 Port of LeithNo. in Survey held at Leith Date, First Survey 16<sup>th</sup> Jan<sup>y</sup> Last Survey 2nd Feb<sup>r</sup> 1929  
Reg. Book. (Number of Visits 5)89595 on the GRAB DREDGER "CHUN PING" Tons { Gross 495  
Net 211

Built at Leith By whom built H. Robb &amp; Co. Yard No. 125 When built 1929

Owners Priestman Bros &amp; Co. Port belonging to Hull

Electric Light Installation fitted by Salford Grier &amp; Mackay &amp; Co. Contract No. / When fitted 1929

**System of Distribution** Two Wire

**Pressure of supply for Lighting** 110 volts, **Heating** — volts, **Power** — volts.

**Direct or Alternating Current, Lighting** Direct **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 rating 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 —, 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 Main Engine Room near Starting 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 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 on Bulkhead near Generator  
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, non-ignitable non-absorbent materials yes, is all insulation of high dielectric strength and of permanently high insulation resistance slate slab, 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

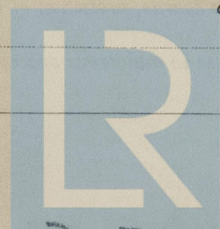
**Main Switchgear**, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches  
One Double pole Main Switch & two Single pole fuses on Generator Circuit  
One Single pole Switch & two single pole fuses on each outgoing Circuit

**Instruments** on main switchboard one ammeter, one voltmeter — 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 Lamp Switch & fuse across each bus bar.

**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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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.

Telford, Grier & Mackay, Ltd.

Electrical Engineers.

Date 12-2-29

T. Grier 24/12/29 Secretary

#### COMPASSES.

Distance between electric generators or motors and standard compass —

Distance between electric generators or motors and steering compass 36 feet

The nearest cables to the compasses are as follows:—

A cable carrying 3 Ampères — feet from standard compass 4 feet from steering compass.

A cable carrying 1/2 Ampères — feet from standard compass one 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 2 degrees on — course in the case of the standard compass, and 1/2 degrees on — course in the case of the steering compass.

Harry Robb Ltd  
J. A. Wilson.

Builder's Signature.

Date 13/2/29.

Is this installation a duplicate of a previous case — If so, state name of vessel —

General Remarks (State quality of workmanship, opinions as to class, &c.)

This Installation has been efficiently fitted on board.  
The materials & Workmanship are sound & good, & the  
installation was found satisfactory under full load &  
working conditions.

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

D.M. 16/2/29.

Total Capacity of Generators 5 Kilowatts.

The amount of Fee ... £ 5 - 0 - 0 When applied for, 9 Feb 1929.

Travelling Expenses (if any) £ : : When received, 13 Feb 1929.

John Houston.  
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

Elec. Light



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