

Rpt. 13.

No. 43072

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

WFO. 24 OCT. 1923

Date of writing Report 16.9.23 19 When handed in at Local Office 19.10.1923 Port of GLASGOW.

No. in Survey held at PORT GLASGOW Date, First Survey 5.9.23 Last Survey 26.9.1923
Reg. Book. (Number of Visits 3)

06360 on the DREDGER PERSEVERE

Tons { Gross 582.
Net

Built at PORT GLASGOW By whom built MESSRS FERGUSON BROS Yard No. 265. When built 1923.

Owners LEITH DOCK COMMISSION. Port belonging to LEITH.

Electric Light Installation fitted by MR J. CHARTERS Contract No. 965 When fitted 1923

System of Distribution Double wire looping-in system without founting.

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. 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 and clearly marked Yes, are they so spaced or shielded that they cannot be accidentally earthed, or short circuited Yes.

Position of Generators Centre of engine 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 over 12" and over 4', 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 beside dynamo

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 over 12" and over 4', are they constructed wholly of durable, incombustible non-absorbent materials Enamelled Slate, is all insulation of high dielectric strength and of

permanently high insulation resistance Mica & Micanite, 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 (both poles), 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

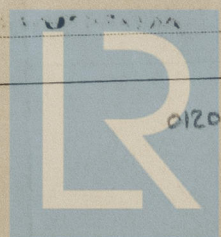
One Generator only having DP Switch & fuse on switchboard

Instruments on main switchboard 1 ammeter 1 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 Two 110v. lamps in series across bus-bars with centre point earthed.

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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12. 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.

J. Hunter

Electrical Engineers.

Date *28th Sept-23*

COMPASSES.

Distance between electric generators or motors and standard compass

Distance between electric generators or motors and steering compass

The nearest cables to the compasses are as follows:—

A cable carrying _____ Amperes _____ feet from standard compass _____ feet from steering compass.

A cable carrying _____ Amperes _____ feet from standard compass _____ 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 _____

Has the effect of switching on and off circuits, motors and other electro-magnetic apparatus within the vicinity of the compasses been noted _____

The maximum deviation due to electric currents was found to be _____ degrees on _____ course in the case of the standard

compass, and _____ degrees on _____ course in the case of the steering compass.

FERGUSON BROTHERS (PORT GLASGOW) LTD.,

Robert Ferguson

DIRECTOR.

Builder's Signature.

Date *15/10/1923.*

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

R.A. 24/10/23

Total Capacity of Generators *8* Kilowatts

The amount of Fee ... £ *8 : 0 : 0* : *When applied for, 25/9/23*

Travelling Expenses (if any) £ *: 10/6* : *When received, 8/10/23*

J.B. Rankin

Surveyor to Lloyd's Register of Shipping.

Committee's Minute *GLASGOW* *23 OCT 1923*

Assigned

Elec. Light J.M.



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