

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

12 NOV 1926

Date of writing Report 11 Nov 1926 When handed in at Local Office 11 Nov 1926 Port of Leith

No. in Survey held at Leith Date, First Survey 8 June 1926 Last Survey 11 Nov 1926
Reg. Book. (Number of Visits 10)

on the Steam Tug "Havice"

Tons { Gross
Net

Built at Leith By whom built Geo & Sonerville Ltd Yard No. 135 When built 1926

Owners Crown Agents for the Colonies Port belonging to

Electric Light Installation fitted by Geo & Sonerville Ltd Contract No. 135 When fitted 1926

System of Distribution Double Wire ✓

Pressure of supply for Lighting 100 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 overload? Yes ✓, are they compound wound? Compound ✓

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? One generator ✓, 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 ✓ Are the lubricating arrangements of the generators as per Rule? Yes ✓

Position of Generators In Engine Room

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? ✓

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

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

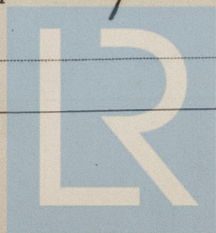
D.P. Switches & D.P. Switches: Master Switch & Branch

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

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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008778-008785-0223 1/2

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.

JOHN CRAN & SOMERVILLE LTD.

J. Duncan Cran.

Electrical Engineers.

Date

1st July 1926

COMPASSES.

Distance between electric generators or motors and standard compass 92 FT

Distance between electric generators or motors and steering compass ✓

The nearest cables to the compasses are as follows:—

A cable carrying 50 Ampères 10 feet from standard compass — 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 2 degrees on all course in the case of the standard compass, and ✓ degrees on ✓ course in the case of the steering compass.

JOHN CRAN & SOMERVILLE LTD.

J. Duncan Cran.

Builder's Signature.

Date

1st July 1926

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 installation has been well fitted, and proved satisfactory on steam trial

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

J. T. Thomas
12/11/26

Total Capacity of Generators 12 Kilowatts

The amount of Fee ... £ 12 : - : When applied for, 11-11-1926

Travelling Expenses (if any) £ : : When received, 22-12-1926

J. T. Thomas.

Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUES. 16 NOV 1926

Assigned Elec. Light



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