

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

15 JUL 1927

Date of writing Report 14-7-27 19 When handed in at Local Office 14-7-27 19 Port of Luth

No. in Survey held at Burntisland Date, First Survey 9-6-27 Last Survey 27-6-27 19
Reg. Book. "CALEDON" (Number of Visits 4)on the S.S. Tons { Gross 1063
Net

Built at Burntisland By whom built Burntisland S.B.L. Yard No. 140 When built 1927

Owners Howard Smith & Co. Port belonging to Sydney

Electric Light Installation fitted by Messrs Claude Chapman & Co. Contract No. 140 When fitted 1927

System of Distribution

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 No, 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 Are the lubricating arrangements of the generators as per Rule Yes

Position of Generators Engine Room Starboard side

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 beltings 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 Engine room starboard side near 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 Yes

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 Yes, if semi-insulating material is used, are all conducting parts insulated from the slab

with mica or micawyle 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 Double pole switch

& fuses in dynamo mains, single pole switch & double pole fuses in

each outgoing circuit

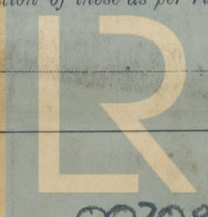
Instruments in main switchboard one ammeter, one voltmeter, - synchronising device for paralleling purposes.

Earth Testing, state what means are provided at the main switchboard for indicating the state of the insulation of the system Battery lamps

coupled to earth through switches & fuses

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.

for Clarke, Chapman & Co., Ltd.

W. Taylor Director

Electrical Engineers.

Date

COMPASSES.

Distance between electric generators or motors and standard compass 106 ft

Distance between electric generators or motors and steering compass 100 "

The nearest cables to the compasses are as follows:—

A cable carrying .5 Amperes 12 feet from standard compass 6 feet from steering compass.

A cable carrying .5 Amperes 6 feet from standard compass 12 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 nie degrees on all course in the case of the standard

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

FOR THE BUILDING COMPANY LTD.

E. Hynes for

MANAGING DIRECTOR

Builder's Signature.

Date 11th July 1927

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 in accordance with the Rules. The materials and workmanship are good and the installation has been examined under full working conditions and found satisfactory.

It is submitted that this vessel is eligible for

Elec. Light.

B.P. 18/7/27.

Total Capacity of Generators 10. Kilowatts.

The amount of Fee £ 10 : 0 : 11-7-27

Travelling Expenses (if any) £ ✓ : 6-9-27

A. Morrison

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

Elec Light



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