

Rpt. 13.

No. 16,631

REPORT ON ELECTRIC FITTINGS

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report 17-12-1924 When handed in at Local Office 17-12-1924 Port of Leith

No. in Survey held at "Burntisland" Date, First Survey 18-9-24 Last Survey 6-12-1924

Reg. Book.

S. 88263 on the S/S. "CARLBEATH"

(Number of Visits.....)

Tons { Gross 2110

Net 1250

Built at Burntisland By whom built Burntisland S.B. Co. Ltd. Yard No. 132 When built 1924

Owners Grahamston Shipping Co. Ltd. Duff's Port belonging to Glasgow.

Electric Light Installation fitted by Messrs Moncrieff Bros. Metel Contract No. When fitted 1924

System of Distribution

Double wire system.

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 overload

yes

, are they compound wound

yes

are they over compounded 5 per cent.

yes

, if not compound wound state distance between each generator

1 generator only

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

Are the lubricating arrangements of the generators as per Rule

yes

Position of Generators

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

all protected

and

, 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

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

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

all protected

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 similar 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

1 generator only

no equalizer switches in use.

Single pole switches & double pole fuses

on outgoing circuits. 6 in number

Instruments on main switchboard

1

ammeters

1

voltmeters

no

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

2 earth lamps

with switches

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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If portable lamps for use in dangerous spaces are supplied, are they of a type approved by the Home Office.....

[illegible]

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.

Maurice Bⁿ Mettill & Burntisland Electrical Engineers.

Date 11/12/24

COMPASSES.

Distance between electric generators or motors and standard compass 78 ft

Distance between electric generators or motors and steering compass 75 ft

The nearest cables to the compasses are as follows:—

A cable carrying 5 Ampères 15 feet from standard compass 10 feet from steering compass. ✓

A cable carrying 1/2 Ampères 10 feet from standard compass 5 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

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 nil degrees on any ✓ course in the case of the standard compass, and nil degrees on any ✓ course in the case of the steering compass.

THE BURNTISLAND SHIPBUILDING COMPANY LTD.

Chief Engineer

Builder's Signature.

Date 16/12/24

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

"/s/ "Halbeath"

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

The installation has been well

fitted & proved satisfactory on trial

It is recommended that a notation of electric light be inserted in the Register Book

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

AYTON

20/12/24

Total Capacity of Generators 6 Kilowatts

£ 6 : - : When applied for, 13-12-1924.

Travelling Expenses (if any): £ : : When received, See debit book.

R. J. Easthope
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned



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