

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 1 SEP 1925

Date of writing Report 24th Aug 1925 When handed in at Local Office 10 Port of DundeeNo. in Survey held at Dundee Date, First Survey June 10th Last Survey 21st Aug 1925
(Number of Visits 13)Reg. No. 37908 on the T.S.M.V. "ATHELCHIEF" Tons { Gross
Net

Built at STANNERGATE YARD, DUNDEE by whom built CALEDON SHIPBUILDING & ENGINEERING CO. LTD., Yard No. 294 When built 1925

Owner BRITISH MOLASSES COMP. NY, LONDON. Port belonging to LIVERPOOL.

Electric Light Installation made by CALEDON S. & E. CO. LTD., Contract No. When fitted 22/8/25.

System of Distribution DOUBLE WIRE SYSTEM

Pressure of supply for Lighting 110 volts, Heating 110 volts

Direct or Alternating Current, Lighting DIRECT Power DIRECT.

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 pole generators

When 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 NO

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 STARBOARD SIDE OF 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 YES

are their axis of rotation fore and aft YES

Furthering, are the boltpieces 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 WITHIN 6 FEET OF MAIN GENERATOR, STARBOARD SIDE OF 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 20' and

are they constructed wholly of durable, incombustible non-absorbent materials SLATE 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 1 1/2" x 1/4", individual fuses to voltmeter, pilot or earth lamp YES, connections of switches TERMINALS

Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches

D.P. TANDEM MAIN SWITCH AND SINGLE POLE ZED FUSES.

Instruments on main switchboard 2 ammeters 1 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 FITTED FOR EACH DYNAMO.

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

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

[illegible]

All Conductors are of annealed copper conforming to British Standard Specification No. 7. YES

The Insulated Conductors are guaranteed to withstand the immersion and resistance tests specified in the Rules. YES

The foregoing is a correct description. YES

FOR THE CALEDON SHIPBUILDING & ENGINEERING CO. LTD.,

William H. Gillanders

Electrical Engineers.

Date *24th Aug 1925*

COMPASSES.

Distance between electric generators or motors and standard compass 300'

Distance between electric generators or motors and steering compass 290'

The nearest cables to the compasses are as follows:—

A cable carrying $1\frac{1}{2}$ Amperes 8 feet from standard compass 6 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. 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 NIL degrees on ALL course in the case of the standard

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

Grant P. Taylor

Builder's Signature.

Date *24th August 1925*,

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 sound & good, on completion it was tried under working conditions and found satisfactory in all respects.

It is submitted that this vessel is eligible for entry in the Lloyd's Register of Shipping.

Elec. Light.
22/8.
17/9/25.

Total Capacity of *28* Kilowatts

The amount of Fee ... £ *21 : 10* :

When applied for, 19

(Travelling Expenses (if any) £ *3 : 0* :)

When received, *5.9.25*

Committee's Minute

Assigned

J. Crausie + J. Sellar
Surveyor to Lloyd's Register of Shipping.