

REPORT ON ELECTRIC FITTINGS

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 15 FEB 1927

Date of writing Report 20-2-1926 When handed in at Local Office 25-2-1926 Port of MIDDLESBROUGH

No. in Survey held at HAVERTON HILL-ON-TEES Date, First Survey 14-9-25 Last Survey 18-2-1926
Reg. Book. (Number of Visits... 20)

37962 on the MOTOR VESSEL "ATHELPRINCE"

Tons { Gross 8875
Net 5225

Built at HAVERTON HILL-ON-TEES By whom built FURNESS SHIP BLDG CO LD Yard No. 85 When built 1926

Owners BRITISH MOLASSES CO LD Port belonging to LIVERPOOL

Electric Light Installation fitted by FURNESS SHIPBUILDING CO LD Contract No. 85 When fitted 1926

System of Distribution DOUBLE WIRE INSULATED

Pressure of supply for Lighting 110 volts, Heating - volts, Power 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. LEVEL, 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 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 FORWARD END OF MACHINERY 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

- 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 FORWARD END OF MACHINERY SPACE NEAR GENERATORS

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. SWITCH & FUSE & SET

OF BUS BARS FOR EACH GENERATOR, WITH D.P. CHANGE-OVER SWITCHES TO EACH OUTGOING CIRCUIT

REMOVABLE "Z" TYPE 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 FOR EACH GENERATOR

210WATT LAMPS IN SERIES & MIDDLE 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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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 FURNESS SHIPBUILDING CO. LIMITED

P. S. Glover

Electrical Engineers.

Date 24th FEB 1926

COMPASSES.

Distance between electric generators or motors and standard compass 220' APPROX

Distance between electric generators or motors and steering compass 210' DO

The nearest cables to the compasses are as follows:—

A cable carrying 1 Ampères 4 feet from standard compass 4 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 NIL degrees on ALL courses in the case of the standard

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

FOR FURNESS SHIPBUILDING CO. LTD

DIRECTOR.

J. M. Glover

Builder's Signature.

Date 24th FEB 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.)

This installation has been fitted in accordance with the Rules: is of good material and workmanship and on completion was examined under full load and found satisfactory.

THIS VESSEL IS ELIGIBLE FOR THE RECORD.

Free Light.

J.A.

3/3/26.

Im. 9.24—Transfer.
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

Total Capacity of Generators 30 Kilowatts

The amount of Fee ... £ 22 : 10 : 23.2.19.25

Travelling Expenses (if any) £ :

When applied for.

When received.

1/4/26

W. H. Roberts

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned



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