

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

TUE 21 MAY 1924

Date of writing Report

10

When handed in at Local Office

26/5/1024 Port of

NEWCASTLE-ON-TYNE

No. in Survey held at

NEWCASTLE-ON-TYNE

Date, First Survey March 27

Last Survey 8th May 1924

Reg. Book Supp.

(Number of Visits 9)

38267 on the "British Duchess"

Tons { Gross 6060
Net

Built at Sunderland

By whom built Messrs J. L. Thompson & Son Ltd

Yard No. 549

When built 1924

Owners Messrs British Tanker Co Ltd

Port belonging to London

Electric Light Installation fitted by Sunderland Forge & Eng Co Ltd

Contract No. 549. 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

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 Engine room aft end.

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 Engine room starboard side

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 Double pole main

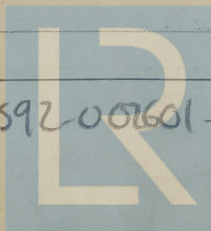
switches fuses on dynamo mains, each outgoing circuit fitted with double pole change over switch & fuses. "Led" fuses fitted throughout

Instruments on main switchboard 2 ammeters 2 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 coupled to earth through switches & fuses

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.



© 2020

007592-00601-00185

Lloyd's Register
Foundation

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

002912 007601-0015 2
© 2020
Lloyd's Register
Foundation

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.

P. PRO. THE SUNDLAND FORGE & ENGINEERING CO. LTD.

Director.

Electrical Engineers.

Date 14th May 1924.

COMPASSES.

Distance between electric generators or motors and standard compass 256 feet

Distance between electric generators or motors and steering compass 256 feet.

The nearest cables to the compasses are as follows:—

A cable carrying 48 Amperes 12 feet from standard compass 12 feet from steering compass.

A cable carrying 55 Amperes 10 feet from standard compass lead into feet from steering compass.

A cable carrying 55 Amperes lead into feet from standard compass 10 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.

JOSEPH L. THOMPSON & SONS, LIMITED,

Builder's Signature.

Date 24th May 1924

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

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

The above installation is in accordance with the Society's Rules. The vessel is in my opinion eligible for notation elec light, wireless

It is submitted that
this vessel is eligible
for notation
Elec Light.
W.T. Badger
2/6/24

Total Capacity of Generators 20 Kilowatts

The amount of Fee ... £ 17 : 10 : When applied for, 24th May 1924

Travelling Expenses (if any) £ : : When received, May 10 1924

W.T. Badger

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

Im. 22.—Transfer.
(The Surveyors are requested not to write on or below the space for Committee's Minute.)



© 2020

Lloyd's Register
Foundation