

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

SAI OCT. 21 1922

Date of writing Report 10/10/22 When handed in at Local Office 20 OCT 1922 Port of Sunderland.

No. in Survey held at Sunderland Date, First Survey 7/7/22. Last Survey Sep 1st 1922
Reg. Book 55249 on the "British Admiral" (Number of Visits.....2.....)Built at Sunderland. By whom built J. Lunn & Sons Ltd. Yard No. 683 When built 1922
Owners British Tankers Co Ltd. Port belonging to London

Electric Light Installation fitted by Sunderland Forge & Eng. Co. Ltd. Contract No. 683. When fitted 1922

System of Distribution

Pressure of supply for Lighting 110 volts, Heating volts, Power 220 volts.

Direct or Alternating Current, Lighting Direct Power alternating

If alternating current system, state frequency of periods per second 50

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 on dynamos flat, motor gen & steam gen on flat below, 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 -

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 Power panel & distribution panel aft end of engine room, Lighting Switchboards on aft bulkhead flat below. 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 - , 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 Three pole circuit breakers with overload trip for each generator. For each circuit a 2 pole switch & fuses on each outgoing circuit. Lighting circuits have double pole switch & fuses on main & outgoing circuits

Instruments on main switchboard 4 ammeters 2 voltmeters 1 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 ✓ how clad boxes fitted with 2nd type fuses.



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

p.pro. THE SUNDERLAND FORCE & ENGINEERING CO. LD Electrical Engineers.

Date 11th October 1922.

COMPASSES.

Distance between electric generators or motors and standard compass

240 feet

Distance between electric generators or motors and steering compass

50 feet

The nearest cables to the compasses are as follows:—

A cable carrying 28 Ampères on the ~~foot~~ standard compass 7 feet from steering compass.

A cable carrying 28 Ampères 7 feet from standard compass on the ~~foot~~ from steering compass.

A cable carrying 6.6 Ampères 10 feet from standard compass 14 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.

SIR JAMES LAING & SONS, LIMITED.

James Laing
Director.

Builder's Signature.

Date

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

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

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

It is submitted that
this vessel is eligible for
THE RECORD

Elec. Light.

A.H.B.

2/11/22

Total Capacity of Generators 202 Kilowatts

The amount of Fee

£ 36 : 11

When applied for,

11th Oct. 1922

Travelling Expenses (if any) £

When received,

See debit book.

W.T. Badger. *W.T. Badger*
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

Im. 3.22.—Transfer.
(The Surveyor is requested not to write on or below the space for Committee's Minute.)



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