

Rpt. 13.

No. 28772

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office.....

THU. MAY. 4 11 1924

Date of writing Report.....

10

When handed in at Local Office

30 APR 1924

Port of

SUNDERLAND.

No. in Survey held at

SUNDERLAND.

Date, First Survey

Mch 6th

Last Survey

17th Mch 1924

Reg. Book.

on the

S.S. "Pacific Shipper"

(Number of Visits.....)

Tons

Gross 6304

Net 3850

Built at

SUNDERLAND.

By whom built

W. Duxford & Sons

Yard No. 577

When built

1924.

Owners

Turness, Withy & Co. Ltd.

Port belonging to

London.

Electric Light Installation fitted by

The Sunderland Dock & Eng. Co. Ltd.

Contract No.

When fitted 1924.

System of Distribution TWO WIRE

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 yes, 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 in 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 —.

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 close to generators in 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 — 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 poleinsulated 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 partsyes, 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 switches

2 fuses for both generators, the equaliser switches being interlocked with the main switches; double pole switches

2 fuses for motor circuits, 1 single pole switches 2 double pole fuses for branch lighting circuits.

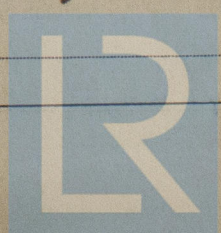
Instruments on main switchboard 2 ammeters 2 voltmeters synchronising device for paralleling purposes.

Earth Testing, state what means are provided at the main switchboard for indicating the state of the insulation of the system earth lamps.

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.

See also
Alterations
made
at Glasgow
10.29

- 8 MAR '24



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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 FORGE & ENGINEERING CO. LTD.

Electrical Engineers.

Date 16th April 1924

Director.

COMPASSES.

Distance between electric generators or motors and standard compass 130 feet

Distance between electric generators or motors and steering compass 120 feet

The nearest cables to the compasses are as follows:—

A cable carrying 10 Ampères 12 feet from standard compass 10 feet from steering compass.

A cable carrying 6 Ampères led into feet from standard compass 12 feet from steering compass.

A cable carrying 6 Ampères 12 feet from standard compass led into 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.

WILLIAM DOXFORD & SONS, Limited

Builder's Signature.

Date

W. Doxford

Manager.

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 a satisfactory manner and in accordance with the rules and on completion was tried under working conditions and found satisfactory.

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

W.T. Badger 6/5/24

Total Capacity of Generators 60 Kilowatts

The amount of Fee ... £ 28: 10: When applied for, 10th March 1924

Travelling Expenses (if any) £ : : When received, 22nd March 1924

W.T. Badger & Co. Surveyors
Surveyors to Lloyd's Register of Shipping.

Committee's Minute

Assigned

1m. 3.22.—Transfer.
(The Surveyors are requested not to write on or below the space for Committee's Minute.)



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