

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office SAT. 16 DEC 1922

Date of writing Report 4/12/1922 When handed in at Local Office 9/12/1922 Port of NEWCASTLE-ON-TYNE

No. in Survey held at Newcastle. Date, First Survey 26 Sept. 1922 Last Survey 4 Nov 1922
Reg. Book. (Number of Visits 11)72312 on the S.S. San Manuel. Tons { Gross 5989
Net 3416

Built at Newcastle By whom built Palmers S & D Co Ltd Yard No. 932 When built 1922

Owners Eagle Oil Transport Co Ltd. Port belonging to London.

Electric Light Installation fitted by Palmers S & D Co Ltd Contract No. 932 When fitted 1922.

System of Distribution Double wire distribution system

Pressure of supply for Lighting 100 volts, Heating — volts, Power 100 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 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 dynamo flat.

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 Main board in engine room on dynamo flat, Sub. board in stbd

passage saloon house 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 Switch fuses for each

generator + 10 change over switches fuses for each outgoing circuit on main board + sub switchboard

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

" " sub " 2 ✓ " 1 ✓ " " "

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

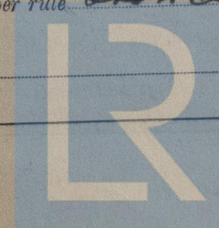
through double pole fuses + switches to earth. ✓

Shipping. 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 Iron clad boxes

with switch fuses. "Led" fuses fitted ✓

W491-0059 1/2



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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.*

[illegible]

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

Palmer's Shipbuilding & Iron Co., Ltd.

Electrical Engineers.

Date 7-12-22.

COMPASSES.

Distance between electric generators or motors and standard compass 194 feet

Distance between electric generators or motors and steering compass 38 feet.

The nearest cables to the compasses are as follows:—

A cable carrying 28 Amperes on the feet from standard compass 8 feet from steering compass.

A cable carrying 28 Amperes 8 feet from standard compass on the 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.

Thos. S. Simpson

Builder's Signature.

Date 7-12-22.

SHIPYARD MANAGER.

Is this installation a duplicate of a previous case Yes. If so, state name of vessel San Maedonis

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 eligible in my opinion for notation elec light, wireless

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

18/12/22

Total Capacity of Generators 24 Kilowatts

The amount of Fee ... £ 19 : 10 : 14/12/22

Travelling Expenses (if any) £ : : See debit book

W.T. Badger

Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE. 19 DEC. 1922

Assigned

Im. 3.22.—Transfer.

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



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