

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL) THU. APR. 5 1923

Date of writing Report 17/3/23 When handed in at Local Office 3/4/23 Port of NEWCASTLE-ON-TYNE

No. in Survey held at Newcastle Date, First Survey 25 Oct. 1922 Last Survey 8th March 1923
Reg. Book. (Number of Visits 14)

66561 on the 55 "Manoceran"

Built at Alloa By whom built J. & S. B. & Co. Ltd. Yard No. Tons { Gross 9250
Net 3390

Owners Steam Navigation Co. Ltd. Port belonging to Amsterdam

Electric Light Installation fitted by The Sunderland Forge & Eng. Co. Ltd. Contract No. When fitted 1923

System of Distribution 110 volt Direct Current Two Wire

Pressure of supply for Lighting 110 volt 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 Bottom Platform of Engine Room Aft Starboard

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 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 Double pole main

Switch & fuses for Generators, Single pole change-over Switches & Double pole

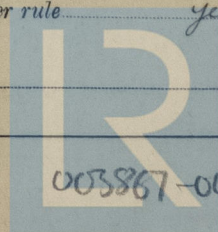
fuses for outgoing circuits

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 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



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003867-003874-0305

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

[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.

PER PRO. THE ~~SUNDERLAND~~ ^{ASS} FORGE & ENGINEERING CO. LD.

Electrical Engineers.

Date 19th. March 1923

Director.

COMPASSES.

Distance between electric generators or motors and standard compass 226 feet

Distance between electric generators or motors and steering compass 216 feet

The nearest cables to the compasses are as follows:—

A cable carrying 11.5 Ampères 26 feet from standard compass 10 feet from steering compass.

A cable carrying 6 Ampères 10 feet from standard compass led into feet from steering compass.

A cable carrying 6 Ampères led 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 1/2 degrees on all course in the case of the standard

compass, and 1/2 degrees on all course in the case of the steering compass.

For THE FORTE SHIPBUILDING AND
ENGINEERING CO. (1921) LTD.

Builder's Signature.

Date 21 March 1923

R. Dalziel

Works Secretary

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

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 *etc* light, wireless

It is submitted that
the vessel is eligible for
THE RECORD. *etc light.*

21. 18. 4. 23

Total Capacity of Generators 225 Kilowatts

The amount of Fee ... £ 19: - -

When applied for,
fee collected from Glasgow.

W. T. Badger

Surveyor to Lloyd's Register of Shipping.

Travelling Expenses (if any): £ : :

When received,

19

Committee's Minute

Assigned

Im. 422.—Transfer.
(The Surveyors are requested not to write on or below the space for Committee's Minute.)



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