

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office SAI 23 JUN 1923

Date of writing Report 10 When handed in at Local Office 22/6/23 Port of NEWCASTLE-ON-TYNE

No. in Survey held at Newcastle Date, First Survey 12 January Last Survey 19 June 1923
Reg. Book. (Number of Visits 15)69051 on the Oilfield Tons { Gross 5300
Net

Built at Newcastle By whom built Tyne Iron Ship Co. Ltd. Yard No. 224 When built 1923

Owners Northern Petroleum Tanks S.S. Co. Ltd. Port belonging to Newcastle.

Electric Light Installation fitted by Falconer Bros & Co. Contract No. 224. When fitted 1923.

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 on platform at after 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 on platform at after end.

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 on dynamo mains

double pole switches & fuses. On outgoing circuits double pole change over switches

& double pole fuses

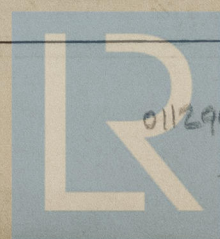
Instruments on main switchboard 2 ammeters 1 voltmeters — synchronising device for paralleling purposes.

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

connected to earth through double pole fuses & switches

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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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.

Falconer, Cross & Co

Electrical Engineers.

Date *June 15, 1923*

COMPASSES.

Distance between electric generators or motors and standard compass *242 feet*

Distance between electric generators or motors and steering compass *240 feet*

The nearest cables to the compasses are as follows:—

A cable carrying *10.5* Ampères *12* feet from standard compass *10* feet from steering compass.

A cable carrying *.25* Ampères *2* feet from standard compass *2* feet from steering compass.

A cable carrying *—* Ampères *—* 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 *each* course in the case of the standard compass, and *nil* degrees on *each* course in the case of the steering compass.

FOR AND ON BEHALF OF
THE IRON SHIP-BUILDING CO. LIMITED

G. J. Mulherson

Builder's Signature.

Date *19 June 1923*

Managing Director

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.)

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.

J.W.D.
28/6/23.

Total Capacity of Generators *15* Kilowatts

The amount of Fee ... £ *15* : : When applied for, *22/6/23.*

Travelling Expenses (if any) £ : : When received, *See debit book.*

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

Committee's Minute *FRI. 29 JUN 1923*

Assigned