

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

24 JAN 1925

Date of writing Report 20th Jan. 1925 When handed in at Local Office 21st Jan. 1925 Port of Aberdeen

No. in Survey held at Aberdeen Date, First Survey 19.12.24 Last Survey 8.1.1925
Reg. Book.

on the S.S. "DONAGHMORE"

(Number of Visits 3)

Tons { Gross 581.45
Net 269.90

Built at Aberdeen By whom built John Lewis & Sons Ltd. Yard No. 76 When built 1925

Owners Saint Helen's Colliery & Brick Works Co., Ltd. Port belonging to Workington.

Electric Light Installation fitted by The Sunderland Forge & Eng. Co. Ltd. Contract No. — When fitted 1925.

System of Distribution Double Wire ✓
Pressure of supply for Lighting 110 ✓ volts, Heating None — volts, Power None — volts.

Direct or Alternating Current, Lighting Direct ✓ Power None —

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 (one generator) ✓, 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 Main 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 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 In Main 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 In same Compartment ✓

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 No equalizer switch

Double Pole Switch & Fuses for Generator. Single Pole Switches & DP Fuses

for Lighting Circuits ✓

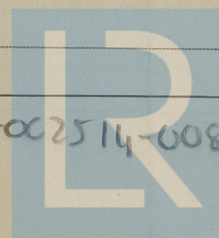
Instruments on main switchboard 1 ✓ ammeters 1 ✓ voltmeters — No synchronising device for paralleling purposes.

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

E.L. Circuits single wired ✓

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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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 & ENG. CO. LTD., Electrical Engineers.

Date 13th Jany. 1925.

W Park.

COMPASSES.

Distance between electric generators ~~or motors~~ and standard compass } 96 feet ✓

Distance between electric generators ~~or motors~~ and steering compass }

The nearest cables to the compasses are as follows :—

A cable carrying 2 Ampères 2 feet from standard compass — 7 feet from steering compass. ✓

A cable carrying 5.0 Ampères 6 feet from standard compass — 7 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 — course in the case of the standard compass, and NIL degrees on — course in the case of the steering compass.

JOHN LEWIS & SONS Ltd.

C. W. Wilson

Builder's Signature.

Date

SHIPYARD MANAGER

Is this installation a duplicate of a previous case. Similar. If so, state name of vessel (ss. "Annaghmore" Alm. Rpt. N° 13696.

General Remarks (State quality of workmanship, opinions as to class, &c. This installation has been fitted on)

board in accordance with the Rules and in a satisfactory manner; the materials and workmanship are good. On completion the installation was tried under full working conditions with satisfactory results.

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

26/1/25

Total Capacity of Generators 4.8 Kilowatts

The amount of Fee ... £ 5 : 0 : 0 16.1 19.25

Travelling Expenses (if any) £

When received,
See debit book.

H. B. Forster.

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

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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