

Rpt. 137

No. 38753

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

8 MAR 1928

Date of writing Report - 7 MAR 1928 When handed in at Local Office - 7 MAR 1928 Port of

No. in Survey held at GOOLE.

Date, First Survey 5 Jan Last Survey 14 Feb 1928.

(Number of Visits...)

Reg. Book.

42319 on the STEEL TWIN SCREW SCHOONER, "PUKEKO."

Tons { Gross 735.78.
Net 372.48.

Built at GOOLE

By whom built The Goole Shipbuilding & Repairing Coy. Ltd.

Yard No. 278

When built 1928.

Owners Richardson & Coy. Ltd.

Port belonging to

NAPIER.

Electric Light Installation fitted by The Sunderland Forge Eng. Coy. Ltd. Contract No.

When fitted 1928.

System of Distribution

2 wire

Pressure of supply for Lighting

110

volts, Heating

volts, Power

110

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 rating

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

Are all terminals accessible, clearly marked, and furnished with sockets

yes

are they so spaced or shielded that they cannot be accidentally earthed,

short circuited, or touched

yes

Are the lubricating arrangements of the generators as per Rule

yes

Position of Generators

bottom platform aft.

is the ventilation in way of the generators satisfactory

yes

are they clear of all inflammable material

yes

if situated near unprotected

and are the generators protected from mechanical injury and damage from water, steam or oil

yes

are their axes 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

aft - engine room bulkhead

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

woodwork or other combustible material, state distance of same horizontally from or vertically above the switchboards

are they constructed wholly of durable, non-ignitable non-absorbent materials

yes

permanently high insulation resistance

yes

if semi-insulating material is used, are all conducting parts insulated from the slab

with mica or micanite or other non-hygroscopic insulating material, and the slab similarly insulated from its framework

yes

and is the frame effectively earthed

yes

Are the fittings as per Rule regarding: - 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

D.P. switches

fuses for all outgoing circuits + generator

Instruments on main switchboard

one

ammeters

one

volts

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 in

series with earth connection

Switches, Circuit Breakers and Fusible Cut-outs, do these comply with the requirements of the Rules

yes

Joint Boxes Section and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule

yes

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

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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.

Messrs The Sunderland Forge & Eng Co. Electrical Engineers.

Date February 3rd 1928

COMPASSES.

Distance between electric generators or motors and standard compass

160 ft.

Distance between electric generators or motors and steering compass

160 ft.

The nearest cables to the compasses are as follows:—

A cable carrying 1/5 Ampères 8 feet from standard compass 6 feet from steering compass.

A cable carrying 1/6 Ampères 10 feet from standard compass 10 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 20 degrees on any course in the case of the standard compass, and 20 degrees on any course in the case of the steering compass.

FOR THE GOOLE SHIPBUILDING & REPAIRING CO. (1927) LTD.

R. J. J. J.

Builder's Signature.

Date 27 Feb 1928.

Joint Managing Director.

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

General Remarks (State quality of workmanship, opinions as to class, &c.)

The Electrical installation of this vessel has been fitted on board under special survey. The materials & workmanship are sound & good. The Plans have been tried under full working conditions & found good. In my opinion it is eligible to have the record of Electric Light.

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

Elec Light

R. A. J.

16/3/28.

Total Capacity of Generators 6 Kilowatts.

The amount of Fee ... £ 6 : - : When applied for, 7 March 1928.

Travelling Expenses (if any) £ : : When received, 16.3.28.

R. A. J.

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

Elec Light



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