

Rpt. 13.

No. 34998

**REPORT ON ELECTRIC FITTINGS.**

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

WED. 5 MAR. 1924

Date of writing Report

19

When handed in at Local Office

Hull

19

Port of

HULL

No. in Survey held at

Hull &amp; Goole.

Date, First Survey

23rd Jan

Last Survey

19 Feb

1924

Reg. Book.

on the

S.S. "HARFREY."

(Number of Visits 5)

Tons { Gross  
Net

Built at

Goole.

By whom built

Goole S.B. Co. Ltd.

Yard No.

When built 1924.

Owners

Port belonging to

Electric Light Installation fitted by

Sunderland Forge &amp; Engineering Co. Ltd.

Contract No.

When fitted 1924.

System of Distribution

Two wire

Pressure of supply for Lighting

100

volts, Heating

volts, Power

volts.

Direct or Alternating Current, Lighting

Direct Current

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

is an adjustable regulating resistance fitted in

series with each shunt field

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 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

are the prime movers and

their respective generators in metallic contact

Main Switch Boards, where placed

In Engine Room. Close to Generator.

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

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 Switch and Fuses for Generator. Single Pole Switches &amp; Double Pole Fuses for Outgoing Circuits

Instruments on main switchboard

/ ammeters

/ 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

© 2020

Lloyd's Register  
Foundation

W443-0115 1/2







10 FEB 24

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 SUNDELL AND FORGE & ENGINEERING CO. LTD.

Electrical Engineers.

Date 26/2/24

Director.

#### COMPASSES.

Distance between electric generators or motors and standard compass

Distance between electric generators or motors and steering compass 120 feet

The nearest cables to the compasses are as follows:—

A cable carrying 10.8 Ampères feet from standard compass 10 feet from steering compass.

A cable carrying .6 Ampères feet from standard compass lead into 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

Has the effect of switching on and off circuits, motors and other electro-magnetic apparatus within the vicinity of the compasses been noted

The maximum deviation due to electric currents was found to be No degrees on any course in the case of the standard compass, and degrees on course in the case of the steering compass.

FOR THE GOOLE SHIPBUILDING & REPAIRING CO. LTD.

Builder's Signature.

Date 29/2/24

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.)

This electrical installation has been fitted under special survey. The materials & workmanship are good. The installation tried under full working conditions found in good order.

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

J. W. D.

8/3/24

Total Capacity of Generators 3 1/2 Kilowatts

The amount of Fee ... £ 5 : 0 :

When applied for,

4/3/24

When received,

Travelling Expenses (if any) £ :

See debit book.

John Shacknidy  
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned



© 2020

Lloyd's Register  
Foundation