

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 15 SEP 1926

Date of writing Report

19

When handed in at Local Office

Sept 14th 1926

Port of

HULL

No. in Survey held at

Hull.

Date, First Survey Aug. 18th

Last Survey

Sept 10th 1926.

Reg. Book.

(Number of Visits...)

on the STEEL S.S. "SHERINGHAM"

Tons { Gross 1088
Net 429

Built at

Hull

By whom built

Barclay S.B. & Co. Ltd

Yard No. 469

When built 1926.

Owners London & North Eastern Ry. Co.

Port belonging to

Harwich.

Electric Light Installation fitted by

Barclay S.B. & Co. Ltd.

Contract No.

When fitted 1926.

System of Distribution

Two wire system.

Pressure of supply for Lighting

110

volts, Heating

volts, Power

110

volts.

Direct or Alternating Current, Lighting

Direct current.

Power

Direct current.

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

Yes

, 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

Starboard side of engine room, fore and aft.

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, direct coupled.

Main Switch Boards, where placed

On engine room bulkhead, near 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

8" vertically protected by steel tray & asbestos.

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

, accessibility of all parts

Yes

, absence of fuses on back of board

Yes

, proportion of omnibus

bars, individual fuses to voltmeter, pilot or earth lamp

Yes

Yes

, connections of switches

Yes

Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches

Double pole switches for generator, & each outgoing circuit protected by DB. Switch & DB. fuse.

Instruments on main switchboard

one

ammeters

one

volts meters

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

[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.

Earle's Shipbuilding & Engineering Co. Ltd.,

Electrical Engineers.

Date 13th Sept. 1926.

COMPASSES.

Distance between electric generators or motors and standard compass 84 feet

Distance between electric generators or motors and steering compass 80 "

The nearest cables to the compasses are as follows:—

A cable carrying 7 Ampères 12 feet from standard compass 7 feet from steering compass.

A cable carrying Ampères feet from standard compass 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 40 degrees on any course in the case of the standard compass, and 40 degrees on any course in the case of the steering compass.

FOR EARLE'S
SHIPBUILDING & ENGINEERING CO. LIMITED.

G. H. Stafford

Builder's Signature.

Date 13th Sept. 1926.

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 installation has been tried under working conditions and found in order. It is eligible in my opinion to have record of 'Electric Light' in the Register Book.

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

J. W. D.
17/9/26

Total Capacity of Generators 23 Kilowatts

The amount of Fee ... £ 19 : ✓ : { When applied for, 12.9.26
Travelling Expenses (if any) £ ✓ : : { When received, 25.10.26

ASD

Sh. H. Mackenzie

Surveyor to Lloyd's Register of Shipping.

FRI. 17 SEP 1926

Committee's Minute

Assigned

Elec. Light