

# REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

-4 JUL 1929

Date of writing Report

19

When handed in at Local Office

3 h 10 29 Port of Newcastle-on-Tyne

No. in Survey held at

Newcastle

Date, First Survey

16 May

Last Survey

19 June 1929

Reg. Book. Supp.

(Number of Visits.....)

90152 on the "Fowberry Tower"

Tons

Gross 4484

Net 2756

Built at Newcastle

By whom built

Hawthorn Leslie &amp; Co. Ltd.

Yard No.

559

When built

1929

Owners W. Milburn &amp; Co. Ltd.

Port belonging to

Newcastle.

Electric Light Installation fitted by

Hawthorn Leslie &amp; Co. Ltd.

Contract No.

559

When fitted

1929

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 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

-

, is an adjustable regulating resistance fitted in

series with each shunt field

Yes

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

Engine Room, Starboard Side

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

-

-

, 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

Engine Room, Starboard Side

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

-

-

are they constructed wholly of durable, non-ignitable 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 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

Double Pole

Switch &amp; Fuses on Generator mains. Outgoing circuits fitted with Single Pole

Switches &amp; Double Pole Fuses.

Instruments on main switchboard

1

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

coupled to earth through switches and fuses.

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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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.

*John T. Batey* DIRECTOR

Electrical Engineers.

Date *24<sup>th</sup> June 1929*

#### COMPASSES.

Distance between electric generators or motors and standard compass *120 feet*

Distance between electric generators or motors and steering compass *114 feet*

The nearest cables to the compasses are as follows:—

A cable carrying *.25* Amperes *on the* *6* feet from standard compass *6* feet from steering compass.

A cable carrying *.25* Amperes *6* feet from standard compass *on the* *6* feet from steering compass.

A cable carrying *1.750* Amperes *11* feet from standard compass *6* 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 *all* course in the case of the standard compass, and *nil* degrees on *all* course in the case of the steering compass.

R. & W. HAWTHORN, LESLIE & CO LIMITED.

*John T. Batey* DIRECTOR

Builder's Signature.

Date *24<sup>th</sup> June 1929*

Is this installation a duplicate of a previous case *Yes* If so, state name of vessel *"Benwell Tower"*

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.*

*W.T. Badger*  
*4/7/29*

Total Capacity of Generators *12* Kilowatts.

The amount of Fee ... £ *12* : — :  
When applied for, *18.6.19.29*  
When received, *19.6.19.29*  
Travelling Expenses (if any) £ : :  
*MP*

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

Committee's Minute *TUE. 9 JUL 1929*

Assigned *Elec Light*

1m. 23a. Transfer.  
(The Surveyors are requested not to write on or below the space for Committee's Minute.)



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