

# REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

TUE APR 1 1924

Date of writing Report

19

When handed in at Local Office

31/3/1924 Port of

NEWCASTLE-ON-TYNE

No. in Survey held at

Newcastle

Date, First Survey 19 Feb

Last Survey

24 March 1924

Reg. Book. Supp.

40037 on the

Marsden

(Number of Visits.....)

Tons

Gross 2875

Net 1695

Built at Newcastle

By whom built Wood Skinner &amp; Co. Ltd

Yard No. 232

When built 1924

Owners Burnett S. S. &amp; Co. Ltd

Port belonging to

Newcastle

Electric Light Installation fitted by

J. H. Holmes &amp; Co.

Contract No. 232

When fitted 1924

System of Distribution

Double wire system ✓

Pressure of supply for Lighting

100 ✓

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 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

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

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

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

Engine room on aft bulkhead of engineers store

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

, 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

Double pole switch  
fuses on dynamo mains, single pole switches & double pole fuses  
on each of the outgoing circuits

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 &amp; fuses

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



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.

*James G. ...* Electrical Engineers.

Date 24/3/24

#### COMPASSES.

Distance between electric generators or motors and standard compass

82 feet.

Distance between electric generators or motors and steering compass

75 feet.

The nearest cables to the compasses are as follows:—

A cable carrying 28 Amperes on the ~~from~~ standard compass 7 feet from steering compass.

A cable carrying 28 Amperes 7 feet from standard compass on the ~~from~~ steering compass.

A cable carrying 8.4 Amperes 15 feet from standard compass 10 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.

WOOD, SKINNER & Co., LIMITED,

*W. T. Badger* Secretary.

Builder's Signature.

Date 28 Mar 1924

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

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*  
1/4/24

Total Capacity of Generators 7 Kilowatts

The amount of Fee ... £ 7 : —

When applied for,  
22/3/1924

Travelling Expenses (if any) £ :

When received,  
25/3/1924

*W. T. Badger*

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned