

# REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

30 DEC 1927

Received at London Office

Date of writing Report

19

When handed in at Local Office

28/12/1927

Port of

NEWCASTLE-ON-TYNE

No. in Survey held at

Newcastle.

Date, First Survey

20 Oct.

Last Survey

28 Nov 1927

Reg. Book. Supp.

42176 on the

S. S. Oil Trader.

(Number of Visits...)

Tons

Gross 5520

Net 3280

Built at

Newcastle.

By whom built

Swan Hunter &amp; W. L. Cold

Yard No. 1244

When built 1927

Owners

British Oil Shipping Co Ltd

Port belonging to

Electric Light Installation fitted by Swan Hunter &amp; Wigham Richardson

Contract No. 1244

When fitted 1927.

System of Distribution

Double wire system

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 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

No

, 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 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, 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 change over switch on main generators. Double pole switch & fuses on each outgoing circuit & on dynamo mains

Instruments on main switchboard

2

ammeters

1

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 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



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

FOR  
SWAN HUNTER & WIGHAM RICHARDSON, LTD.  
*Edison*

Electrical Engineers.

Date 8<sup>th</sup> Dec. 27

#### COMPASSES.

Distance between electric generators or motors and standard compass 240 feet

Distance between electric generators or motors and steering compass 230 feet

The nearest cables to the compasses are as follows:—

A cable carrying .25 Amperes on the ~~feet from~~ standard compass 10 feet from steering compass.

A cable carrying .25 Amperes 10 feet from standard compass on the ~~feet from~~ steering compass.

A cable carrying Amperes 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 *nil* degrees on *all* courses in the case of the standard compass, and *nil* degrees ~~for~~ *all* courses in the case of the steering compass.

SWAN, HUNTER & WIGHAM RICHARDSON, LTD.

*G. J. Steady*

Builder's Signature.

Date 13 Dec. 27

DIRECTOR.

Is this installation a duplicate of a previous case. *yes* If so, state name of vessel *Oil Shipper*

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*  
5/1/28

Total Capacity of Generators 22 Kilowatts

The amount of Fee ... £ 18 : 10 : When applied for, 2/12/27

Travelling Expenses (if any) £ : : When received, 3/12/27

*W. T. Badger*

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

*Elec light*

Im 9.24.—Transfer.  
(The Surveyors are requested not to write on or below the space for Committee's Minute.)



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