

# REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report

19

When handed in at Local Office

16 OCT. 1925

Port of

Sunderland &amp; Newcastle

No. in Survey held at

Sunderland.

Date, First Survey

July 3rd.

Last Survey

13th October 1925

Reg. Book.

on the M.V. SYLVAFIELD.

(Number of Visits)

5

Gross 5708.60

Tons

Net 3392.17

Built at SUNDERLAND

By whom built SIR JAMES LANG &amp; SONS LTD

Yard No. 693

When built 1925

Owners THE NORTHERN PETROLEUM TANK S. SHIP COY Port belonging to NEWCASTLE  
 MANAGERS MESSRS HUNTING & SON "B" MILBURN HOUSE NEWCASTLE/TYNE

Electric Light Installation fitted by SUNDERLAND FORGE & ENGINEERING CO LTD. Contract No. When fitted 1925.

System of Distribution DOUBLE WIRED. ✓

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 GENERATOR PLATFORM 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 YES. are the prime movers and their respective generators in metallic contact YES.

Main Switch Boards, where placed GENERATOR PLATFORM IN ENGINE ROOM.

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 & ZED TYPE FUSES FOR EACH GENERATOR. DOUBLE POLE SWITCHES & ZED TYPE FUSES FOR OUTGOING.

LIGHTING &amp; POWER CIRCUITS.

Instruments on main switchboard 2 ammeters 2 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.



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Lloyd's Register

W 85-00 560/12)



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.

N. 149 THE SUNDERLAND FORGE & ENGINEERING CO. LTD.

*Y. Thompson*

Electrical Engineers.

Date

28 JUL '25

#### COMPASSES.

Distance between electric generators or motors and standard compass 220 FEET

Distance between electric generators or motors and steering compass 230 FEET

The nearest cables to the compasses are as follows:—

A cable carrying 7.4 Ampères 10 feet from standard compass 10 feet from steering compass.

A cable carrying 2 Ampères 10 feet from standard compass LED INTO feet from steering compass.

A cable carrying 2 Ampères LED INTO 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 ANY course in the case of the standard

compass, and NIL degrees on ANY course in the case of the steering compass.

SIR JAMES LAING & SONS, LIMITED.

*Hugh Cairny*

Builder's Signature.

Date 12<sup>th</sup> Aug 1925.

Is this installation a duplicate of a previous case no If so, state name of vessel

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.

*C. S. T. D.*  
21/10/25

Total Capacity of Generators 25 Kilowatts

The amount of Fee £ 20 : 0 : 24.7 1925  
Travelling Expenses (if any) £ : : 1.8 1925

*W. T. Badger*

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 23 OCT 1925

Assigned

1m. 9.22—Transfer.  
(The Surveyors are requested not to interfere or delay the space for Committee's Minute.)



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Foundation