

# REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 4 SEP 1930

Date of writing Report 20.8.1930 When handed in at Local Office 10 Port of SUNDERLAND.

No. in Survey held at SUNDERLAND Date, First Survey 24/7/30 Last Survey 14/8 1930  
Reg. Book.90955 on the M.V. "IMA" Tons { Gross 6842  
Net 4026

Built at SUNDERLAND. By whom built W. DOXFORD &amp; SONS LTD. Yard No. 608 When built 1930

Owners S. MARCUSSEN. Port belonging to OSLO.

Electric Light Installation fitted by THE SUNDERLAND FORGE &amp; ENG. CO. Contract No. 608 When fitted 1930.

## System of Distribution

DOUBLE WIRE.

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 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 No, 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.

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 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.

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, 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

D.P.S.T. KNIFE SWITCHES &amp; D.P. 'ZED' TYPE FUSES FOR GENERATORS. D.P. C.O. KNIFE SWITCHES &amp; 'ZED' TYPE FUSES FOR

EACH OUTGOING CIRCUIT.

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

LAMPS CONNECTED THRO' SWITCH &amp; FUSE ON EACH POLE TO EARTH.

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.

p.pro. THE SUNDERLAND FORGE & ENGINEERING CO. LTD.

A. I. Guiney

Electrical Engineers.

Date 26th August 1930.

#### COMPASSES.

Distance between electric generators or motors and standard compass 250'

Distance between electric generators or motors and steering compass 240'

The nearest cables to the compasses are as follows:—

A cable carrying 3.0 Ampères 8 feet from standard compass 6 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 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.

WILLIAM DOXFORD & SONS, Limited.

R. A. R. Builder's Signature.

Date 28/8/30

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.)

This installation has been fitted on board under special survey. Tested under full load conditions and found satisfactory. The materials and workmanship were found to be good and sound.

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

10/9/30.

Total Capacity of Generators 30 Kilowatts.

The amount of Fee ... £22.10.0. When applied for, 19.8.1930. When received, 23.8.1930.

Committee's Minute

Assigned Elec. Light

J. S. Ransin. Surveyor to Lloyd's Register of Shipping.



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