

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

-8 DEC 1926

Date of writing Report 23-11-1926 When handed in at Local Office 29-11-2610 Port of GLASGOW.

No. in Survey held at GLASGOW.
Reg. Book.Date, First Survey 14th SeptLast Survey 12th Nov 1926
(Number of Visits.....11.....)

89978 on the

S. S. "MATRA"

Tons { Gross 7711
Net

Built at PORT GLASGOW

By whom built W. HAMILTON & CO. LTD

Yard No. 396

When built 1926.

Owners MESSRS T & J. BROCKLEBANK LTD

Port belonging to

LIVERPOOL.

Electric Light Installation fitted by MESSRS H. T. ROBERTSON & CO

Contract No. 396

When fitted 1926.

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 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

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

Starting Platform

Start slide

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

Alongside Generators

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

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 Main Switch for each machine

D/P Circuit switches for each outgoing circuit

Instruments on main switchboard

2

ammeters

2

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

Two lamps in series earthed

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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W1182-0130 1/2

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

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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.

H. T. Robertson & Co.

Electrical Engineers.

Date *24/11/26*

COMPASSES.

Distance between electric generators or motors and standard compass *210 ft*

Distance between electric generators or motors and steering compass *210 ft*

The nearest cables to the compasses are as follows:—

A cable carrying *9* Amperes *15* feet from standard compass *15* feet from steering compass.

A cable carrying *3* Amperes *into* feet from standard compass *into* 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 *7 1/2* degrees on *every* course in the case of the standard compass, and *7 1/2* degrees on *every* course in the case of the steering compass.

FOR WILLIAM HENDERSON & CO., LIMITED

W. Henderson

Builder's Signature.

Date *27/11/26*

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

General Remarks (State quality of workmanship, opinions as to class, &c.)

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

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

Total Capacity of Generators *34* Kilowatts

The amount of Fee ... £ *23 10 0*

When applied for,

When received,

Travelling Expenses (if any) £

Committee's Minute *GLASGOW 30 NOV 1926*

Assigned

Elec. Light.

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



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