

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

No. 7755

21 NOV 1927

Date of writing Report 12th Nov 1927 When handed in at Local Office 18th Nov 1927 Port of TriesteNo. in Survey held at Trieste Date, First Survey 17th March Last Survey 6th Oct 1927
Reg. Book. 42717 on the Motor Vessel "SUMATRA" (Number of Visits... 10)Built at Trieste By whom built Cantieri del Reno (S.T.T.) Yard No. 753. Tons { Gross 6126 Net 3801
When built 1927.

Owners Marittima Italiana Port belonging to Union.

Electric Light Installation fitted by Stabilimento Idrico Sreestuin Contract No. When fitted 1927.

System of Distribution Two wire direct current ✓

Pressure of supply for Lighting 110 ✓ volts, Heating ✓ volts, Power 220 ✓ 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 3 of 66 K.W. Yes. ✓, 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 Two on port side engine room - one on starboard side. One in thrust recess ✓

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 in engine room port side forward. ✓

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 Marble, 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 micamite 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 Generators - two pole

circuit breakers with overload and reverse current trips and with equalizer switches

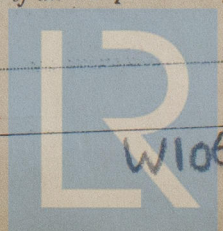
electrically arranged as per Rule. Outgoing circuits - two pole knife switches with quick release.

Instruments on main switchboard 3 ammeters 3 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 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. ✓



© 2020

W1060-10258 Registered Foundation

8 2

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

* One 25 HP motor drives a circulating sea water pumps and a lubricating oil pumps. A second 25 HP motor drives a lubricating oil pumps alone.

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.

Pro Massimo Antezegui

Electrical Engineers.

Date *17-11-27*

COMPASSES.

Distance between electric generators or motors and standard compass *35m*

Distance between electric generators or motors and steering compass *30m*

The nearest cables to the compasses are as follows:—

A cable carrying *3* Amperes *4m* ~~from~~ *3.5m* ~~from~~ steering compass.

A cable carrying *4* Amperes *4m* ~~from~~ *3.5m* ~~from~~ steering compass.

A cable carrying *25* Amperes *5m* ~~from~~ *4.5m* ~~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 *none* degrees on *✓* course in the case of the standard compass, and *✓* degrees on *✓* course in the case of the steering compass.

Stabilimento Tecnico Triestino

Stabilimento

Builder's Signature.

Date *17. 11. 27.*

Is this installation a duplicate of a previous case *✓* If so, state name of vessel *Similar to Helas.*

General Remarks (State quality of workmanship, opinions as to class, &c. *The electric installation of this*

vessel has been fitted on board in accordance with the requirements of the Rules. The generators and motors were tested in the shops before being fitted on board, and on completion, the whole installation under full working conditions with satisfactory results.
Unless fitted.

DUAL CLASS

L.R. & R.I.

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

Total Capacity of Generators *235* Kilowatts.

The amount of Fee ... *£ 3850.-*

When applied for, *(RI)*

19

When received, *26.3.28*

19

Travelling Expenses (if any) £

V. Lockray.

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 25 NOV 1927

Assigned

Elec. Lt.



© 2020

Lloyd's Register
Foundation