

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

7 JUN 1927

Date of writing Report

19

When handed in at Local Office

May 31 1927 Port of Trieste

No. in Survey held at

Trieste

Date, First Survey

20 Dec 26

Last Survey

May 12

1927

Reg. Book.

0735

on the Motor Vessel

"RIALTO"

(Number of Visits...)

Tons

Gross 7098

Net 4498

Built at

Trieste

By whom built

Stabilimento Tecnico

Yard No. 751

When built

1927.

Owners

Navigazione Libera Italiana

Port belonging to

Venice

Electric Light Installation fitted by

Stabilimento Tecnico Italiano

Contract No.

When fitted

1927.

System of Distribution

Two wire

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

3 at 66 Kw. Yes.

1 at 25 Kw. Shunt wound.

Are they over compounded 5 per cent. 66 Kw. generators Yes.

, if not compound wound state distance between each generator

About 50 feet.

Where more than one generator is fitted are they arranged to run in parallel

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.

Location of Generators

Compound wound generator - But port side 1st start side engine room
Shunt wound generator - in flat at start side of engine room.

Ventilation in way of the generators satisfactory

Yes.

, are they clear of all inflammable material

Yes.

Protected near unprotected woodwork or other combustible material, state distance of same horizontally from or vertically above the generators

Yes.

and , are the generators protected from mechanical injury and damage from water, steam or oil

Yes.

Their axes of rotation fore and aft

Yes.

Being, are the bedplates and frames of the generating plant efficiently earthed

Yes.

are the prime movers and

respective generators in metallic contact

Yes.

Main Switch Boards, where placed

Port side of engine room - transversely in ship

If the generators and main switchboard are not placed in the same compartment, is each generator provided with

se on each insulated pole as near as possible to the terminals of the generator, additional to that provided on the main switchboard

Yes.

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

Yes.

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

Yes.

with mica or micanite or other non-hygroscopic insulating material, and the slab similarly insulated from its framework

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

Are

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 double

pole circuit breakers with maximum and reserve current trips and with equalizer switches electrically arranged as per rule. Outgoing circuits - two pole knife switches with quick release.

Instruments on main switchboard

5

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

Switches & Circuit breakers - Yes.

Fusible cut outs - No. see note.

Joint Boxes Section and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule

Yes.



© 2020

Lloyd's Register Foundation

007909-007918-0117

| MOTOR CONDUCTORS. | | | | | | | | | |
|-------------------|-----------------------------|----------------|--|------------------------|--------------|--------------------------------|--|----------------|-------------------|
| Ref. No. | DESCRIPTION. | No. of Motors. | Effective Area of each Conductor Sq. MM. | COMPOSITION OF STRAND. | | Total Maximum Current Amperes. | Approximate Length. (Lead and Return.) METERS. | Insulated with | HOW PROTECTED. |
| | | | | No. | Diameter MM. | | | | |
| | BALLAST PUMP | 1 | 49 ✓ | 19 | 1.85 | 98 | 27. | Insul. Rubber. | Lead - steel wire |
| | MAIN BILGE LINE PUMPS ... | 1 | 42 ✓ | 7 | 0.9 | 19½ | 32 | do | do. |
| | GENERAL SERVICE PUMP ... | 1 | 14 ✓ | 7 | 1.6 | 39 | 34. | do | do |
| | EMERGENCY BILGE PUMP ... ✓ | | | | | | | | |
| | SANITARY PUMP ✓ | | | | | | | | |
| | CIRC. SEA WATER PUMPS ... | 2 | 38 ✓ | 19 | 1.6 | 75 | 28 | do | do |
| | CIRC. FRESH WATER PUMPS ✓ | | | | | | | | |
| | AIR COMPRESSOR ✓ | | | | | | | | |
| | FRESH WATER PUMP ... | 1 | 2½ ✓ | 1 | 1.8 | 7.9 | 32 | do | do |
| | ENGINE TURNING GEAR ... | 1 | 10 ✓ | 4 | 1.3 | 37 | 40 | do | do |
| | ENGINE REVERSING GEAR ... ✓ | | | | | | | | |
| | LUBRICATING OIL PUMPS ... | 2 | 14 ✓ | 4 | 1.6 | 39 | 34 | do | do |
| | OIL FUEL TRANSFER PUMP ... | 1 | 25 ✓ | 19 | 1.3 | 59 | 80 | do | do |
| | WINDLASS | 1 | 127 ✓ | 37 | 2.1 | 190 | 186 | do | do |
| | WINCHES, FORWARD ... | 1 | 159 ✓ | 37 | 2.35 | 209 | 160 | do | do |
| | WINCHES, AFT | 1 | 65 159 ✓ | 19 37 | 2.10 2.35 | 105 209 | 88 114 | do | do |
| | STEERING GEAR— | | | | | | | | |
| | (a) MOTOR GENERATOR... ✓ | 1 | 65 ✓ | 19 | 2.1 | 113 | 192 | do | do |
| | (b) MAIN MOTOR | | 65 ✓ | 19 | 2.1 | 98 | 10 | do | do |
| | WORKSHOP MOTOR | 1½ | 45 ✓ | 7 | 0.9 | 13 | 30 | do | do |
| | VENTILATING FANS ✓ | | | | | | | | |
| | REFRIG. PLANT. | 5 | 65 ✓ | 19 | 2.1 | 100 | 50 | do | do |
| | SUPERCHARGER | 1 | 129 ✓ | 37 | 2.1 | 200 | 60 | do | do |

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.

Lucy Mayling Hunt Electrical Engineers.

Date *28-5-27*

COMPASSES.

Distance between electric generators or motors and standard compass *37m.*

Distance between electric generators or motors and steering compass *40 m*

The nearest cables to the compasses are as follows:—

A cable carrying *4* Ampères *3m* feet from standard compass *6m* feet from steering compass. } non inductive

A cable carrying *3* Ampères *4m* feet from standard compass *7m* feet from steering compass. } arcs.

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 *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

Builder's Signature.

Date *28-5-27.*

Is this installation a duplicate of a previous case

If so, state name of vessel *Similar to Stella, Lellena, Helix.*

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

The equalizer cable of the generator nearest the switchboard is below Rule size; the generators have been examined when running in parallel and were found satisfactory. see London letter E. 1st April 1927. re Helix.

The fusible cut outs on the main switchboard are not mounted on holders of insulating material as required by the Rules, but the owners have signified their acceptance of the arrangement in a letter, a copy of which is being retained in this office. see London letter E. 15th March 1927.

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

Wireless fitted

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

DUAL CLASS

L.R. & R.I.

Total Capacity of Generators *223* Kilowatts.

The amount of Fee ...

Lire 4004. When applied for, *June 4 1927*

Travelling Expenses (if any) £

When received, *24.10.27*

V. Lockrey

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

WED. 8 JUN 1927

TUES. 26 JUL 1927
FRI. 11 NOV 1927

Assigned

Elec light



© 2020

Lloyd's Register
Foundation