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RETAIN

No. 10081

Rpt. 18.

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

14 NOV 1927

Date of writing Report 24/10/1927 When handed in at Local Office

19 Port of GENOA.

No. in Survey held at GENOA.

Date, First Survey DEC 7, 1926 Last Survey OCT 31, 1927

(Number of Visits 64)

31006 on the STEEL TWIN SCREW M.V. "ORAZIO"

Tons { Gross
Net

Built at BAIA (NAPLES) By whom built CANTIERE ED OFFICINE MERIDIONALI No. 14. When built 1927.

Owners NAVIGAZIONE GENERALE ITALIANA. Port belonging to GENOA.

Electric Light Installation fitted by OFFICINE ALLESTIMENTO RIPARAZIONI NAVI. — GENOA. Contract No. When fitted 1927.

System of Distribution

TWO WIRE. SEPARATE.

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 NO. SHUNT WOUND WITH AUXILIARY INTERPOLES, are they over compounded 5 per cent. ✓, if not compound wound state distance between each generator 15 FT. APPROX.

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 ✓

Are the lubricating arrangements of the generators as per Rule YES.

Position of Generators IN ENGINE ROOM. 3 OF 170 KW PORT SIDE. 1 OF 280 KW STAR SIDE. EMERGENCY GENERATOR ON "D" DECK AFT. 1 OF 100 KW. is the ventilation in way of the generators satisfactory YES ✓, are they clear of all inflammable material YES.

if situated near unprotected work or other combustible material, state distance of same horizontally from or vertically above the generators and YES ✓, 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 bed-plates 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 MAIN IN ENGINE ROOM OFF FORWARD BULKHEAD. EMERGENCY BOARD IN DYNAMO ROOM "D" DECK AFT. 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 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 work or other combustible material, state distance of same horizontally from or vertically above the switchboards YES and YES.

are they constructed wholly of dry, non-ignitable non-absorbent materials YES. is all insulation of high dielectric strength and of permanently high insulation resistance YES.

with mica or micaite 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 DOUBLE POLE FUSES.

AND SWITCHES. CIRCUIT BREAKERS WITH OVERLOAD AND REVERSED CURRENT TRIPS. ALL TO RULE REQUIREMENTS.

Instruments on main switchboard 18. ammeters 7. 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 PUSHES AND LIGHTS ON SWITCHBOARD. OHMMETER FOR POWER CIRCUITS.

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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Lloyd's Register Foundation

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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 soecified in the Rules.

The foregoing is a correct description.

Stabilimento Tecnico Triestino

Fabbrica macchine S. Andrea - Trieste

OFFICINE ALLESTIMENTO E RIPARAZIONI NAVI

Electrical Engineers.

Date

Aut. Sign

L. Melchiori

COMPASSES.

Distance between electric generators or motors and standard compass

315' 0"

Distance between electric generators or motors and steering compass

300' 0"

The nearest cables to the compasses are as follows :—

A cable carrying 5. Amperes 30 feet from standard compass 20 feet from steering compass.

A cable carrying 50. Amperes 40 feet from standard compass 30 feet from steering compass.

A cable carrying 30. Amperes 60 feet from standard compass 50 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 S.W. course in the case of the standard compass, and Nil degrees on S.W. course in the case of the steering compass.

Stabilimento Tecnico Triestino

Fabbrica macchine S. Andrea - Trieste

OFFICINE ALLESTIMENTO E RIPARAZIONI NAVI

Builder's Signature.

Date

Aut. Sign

L. Melchiori

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

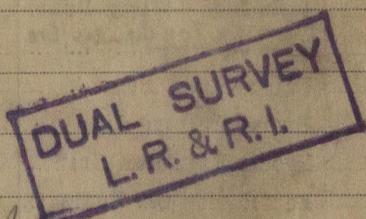
General Remarks (State quality of workmanship, opinions as to class, &c.)

The installation has been built under Skilled Surveyor of tested materials and in accordance with the Surveyor's letter, approach plans and hull requirements.

The Materials and workmanship are good in the installation when tried under full working conditions it has been found satisfactory.

In our opinion the vessel is eligible for the notation "ELECTRIC LIGHT".

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



Total Capacity of Generators 890 Kilowatts.

The amount of Fee £ 6020.00

When applied for
5/11/1927 LM.

Travelling Expenses (if any) £ 750.00

When received
20/11/1927 GLB

Committee's Minute

FRL 18 NOV 1927

Assigned

Electric light