

Rpt. 13.

No. 5544

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

JAN 1950

Received at London Office

Date of writing Report 21.10.49 19 When handed in at Local Office 19 Port of Piraeus

No. in Survey held at Piraeus Date, First Survey 5.5.49 Last Survey 27.8.49 19
Reg. Book. (No. of Visits 9)

on the M.V. "GEORGIOS P"

Tons { Gross 705
Net 451

Built at By whom built Messrs Baskiliades, Piraeus Yard No. When built 1945

Owners Messrs A. Constantinis Port belonging to Piraeus

Installation fitted by during enemy occupation and now exchanged by Messrs Karakostas, Athens When fitted 1945

Is vessel equipped for carrying Petroleum in bulk No Is vessel equipped with D.F. No E.S.D. No Gy.C. No Sub. Sig. No

Plans, have they been submitted and approved. Yes submitted System of Distribution Yes insulation Voltage of Lighting 220

Heating Power 220 D.C. or A.C., Lighting D.C. Power 220 If A.C. state frequency

Prime Movers, has the governing been found as per Rule when full load is thrown on and off. Yes Are turbine emergency governors fitted

with a trip switch. Yes Generators, are they compound wound. Yes, and level compounded under working conditions. Yes

if not compound wound state distance between generators. r and from switchboard. r Are the generators arranged to run

in parallel. Yes, are shunt field regulators provided. Yes Is the compound winding connected to the negative or positive pole

Negative Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing. Yes Have certificates of

test for machines under 100 kw. been supplied. Yes and the results found as per Rule. Yes

Position of Generators Engine Room floor level No 1 & 2 Starboard side No 3 Port side

is the ventilation in way of generators satisfactory. Yes are they clear of inflammable material and protected from mechanical injury and

damage from water, steam and oil. Yes Switchboards, where are main switchboards placed. Forward end of E.H. and 2nd, from forward bulkhead.

are they in accessible positions, free from inflammable gases and acid fumes and protected from mechanical injury and damage from water,

steam and oil. Yes, what insulation is used for the panels. Ebonite, if of synthetic insulating

material is it an Approved Type. Yes, if of semi-insulating material (slate or marble) are all conducting parts insulated therefrom as

per Rule. Yes Is the construction as per Rule, including locking of screws and nuts. Yes Description of Main Switchgear

for each generator and arrangement of equaliser switches. Two pole, revolving switches

and the switch and fuse gear (or circuit breakers) for each outgoing circuit. Do

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule. r Instruments on main switchboard 3

ammeters 3 voltmeters 3 synchronising devices. For compound machines in parallel are the ammeters and reversed current

protection devices connected on the pole opposite to the equaliser connection. Yes Earth Testing, state means provided Earth

comps. connected to E. through two fuses

Switches, Circuit Breakers and Fuses, are they as per Rule. Yes, are the fuses an Approved Type. Yes

make of fuses. Siemens, are all fuses labelled. Yes If circuit breakers are provided for the generators, at what

overload do they operate 15% and at what current do the reversed current protective devices operate 12%

Joint Boxes, Section Boards and Distribution Boards, is the construction as per Rule. Yes

Cables, are they insulated and protected as per Rule. Yes, if otherwise than as per Rule are they of an Approved Type. r

state maximum fall of pressure between bus bars and any point under maximum load > 13.2 V, are the ends of all cables having a sectional

area of 0.01 square inch and above provided with soldering sockets. Yes Are all paper insulated and varnished cambric insulated

cables sealed at the ends. Yes Are all the cable runs in accessible positions, not exposed to drip or accumulation of water or oil,

high temperatures or risk of mechanical damage. Yes, are any cables laid under machines or floorplates. No, if so, are they

adequately protected. r Are cables in machinery spaces, galleys, laundries, etc., lead covered. Yes or run in conduit. r

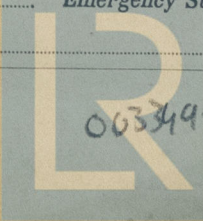
or of the "HR" type. r State how the cables are supported or protected. Clipped to the surface

Are all lead sheaths, armouring and conduits effectually bonded and earthed. Yes Are all cables passing through decks and watertight

bulkheads provided with deck tubes or watertight glands. Yes, where unarmoured cables pass through beams, etc., are the holes

effectively bushed. r Refrigerated chambers, are the cables and fittings as per Rule. r

Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule. r Emergency Supply, state position



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PARTICULARS OF GENERATING PLANT.

GENERATOR CABLES.

MAIN DISTRIBUTION CABLES (to Section Boards, Distribution Fuse Boards, etc.).

| DESCRIPTION. | | In mm | | | | | | | | | | |
|--------------|---------------------------------|-------|---|--------|----|----|----|-----|----|------|------|-------|
| N°1 | Distribution Box (Bridge) | ✓ | 1 | 7/036 | 4 | 6 | 24 | 151 | VR | LCAB | 4mm | 22.5d |
| N°2 | Distribution Box (Saloon) | ✓ | 1 | 7/036 | 4 | 5 | 24 | 70 | VR | LCAB | 4mm | 22.5d |
| N°3 | Distribution Box (Cabins) | ✓ | 1 | 7/036 | 4 | 10 | 24 | 62 | VR | LCAB | 4mm | 22.5d |
| N°4 | Distribution Box (Deck Ee) | ✓ | 1 | 7/036 | 4 | 8 | 24 | 184 | VR | LCAB | 4mm | 22.5d |
| N°5 | Distribution Box (Aft Pearl Ee) | ✓ | 1 | 7/036 | 4 | 3 | 24 | 200 | VR | LCAB | 4mm | 22.5d |
| | Steering Gear Junction Box. | ✓ | 1 | 19/044 | 16 | 26 | 53 | 230 | VR | LCAB | 16mm | 49d |

LIGHTING, HEATING, WIRELESS, NAVIGATION LIGHTS, ETC., CABLES.

| DESCRIPTION. | CONDUCTORS. | | MAXIMUM CURRENT IN AMPERES. | | APPROX. LENGTH (lead plus return feet). | INSULATION. | PROTECTIVE COVERING. |
|--------------------------------|---------------------------|--|-----------------------------|-------|---|-------------|----------------------|
| | No. in Parallel per Pole. | Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm. | In the Circuit. | Rule. | | | |
| Engine Room Lighting | ✓ 1 | 7/036 | 4 | 24 | 53 | VR | LCAB |
| Engine Room Lighting | ✓ 1 | 7/028 | 4 | | 150 | VR | LCAB |
| Steering Gear Lighting | ✓ 1 | 7/024 | 3 | | 300 | VR | LCAB |
| 3 Sockets (Steering Gear) | ✓ 1 | 1/056 | 2 | | 100 | VR | LCAB |
| Stern Light | ✓ 1 | 1/056 | 2 | | 318 | VR | LCAB |
| Officers Cabin Lighting | ✓ 1 | 7/028 | 9 | | 408 | VR | LCAB |
| Crews Accommodation Lighting | ✓ 1 | 7/028 | 6 | | 415 | VR | LCAB |
| Deck Lighting | ✓ 1 | 7/028 | 5 | | 111 | VR | LCAB |
| Galley Lighting | ✓ 1 | 7/024 | 3 | | 85 | VR | LCAB |
| Engine Room Passage Lighting | ✓ 1 | 7/024 | 2 | | 60 | VR | LCAB |
| Saloon Lighting | ✓ 1 | 7/028 | 6 | | 120 | VR | LCAB |
| Cabins & Bathroom Lighting | ✓ 1 | 7/028 | 4 | | 91 | VR | LCAB |
| Wheel House Lighting | ✓ 1 | 7/024 | 6 | | 75 | VR | LCAB |
| Master Head Light | ✓ 1 | 7/024 | 4 | | 292 | VR | LCAB |
| Navigation Lights | ✓ 1 | 7/028 | 5 | | 160 | VR | LCAB |
| Steering Control & Stern Light | ✓ 1 | 1/056 | 2 | | 40 | VR | LCAB |
| Battery Charging | ✓ 1 | 19/036 | 23 | 38 | 309 | VR | LCAB |
| Compass Lighting | ✓ 1 | 1/056 | 2 | | 118 | VR | LCAB |
| Morse | ✓ 1 | 1/056 | 6 | | 60 | VR | LCAB |

MOTOR CABLES.

| ALL IMPORTANT MOTORS TO BE ENUMERATED. | No. | B.H.P. | | | | | | | | |
|--|-----|--------|---|--------|-------|-----|-------|-----|----|------|
| Compressor | ✓ 1 | 45 | 1 | 19/053 | 50 | 83 | 118 | 50 | VR | LCAB |
| Flush Water Pump | ✓ 1 | 1.5 | 1 | 7/028 | 2 1/2 | 5 | 15.5 | 20 | VR | LCAB |
| Bridge & General Service Pump | ✓ 1 | 10 | 1 | 19/036 | 10 | 40 | 38 | 26 | VR | LCAB |
| Sanitary Pump | ✓ 1 | 1.5 | 1 | 7/028 | 2 1/2 | 5 | 15.5 | 20 | VR | LCAB |
| Cargo Oil Pump | ✓ 1 | 12 | 1 | 19/036 | 10 | 42 | 39 | 30 | VR | LCAB |
| Cargo Oil Pump | ✓ 1 | 32 | 1 | 19/064 | 25 | 100 | 83.78 | 60 | VR | LCAB |
| Cargo Oil Pump | ✓ 1 | 22 | 1 | 19/064 | 25 | 100 | 83.78 | 60 | VR | LCAB |
| Trimming Gear | ✓ 1 | 8 | 1 | 19/028 | 6 | 32 | 29 | 25 | VR | LCAB |
| Oil Fuel Pump (Main Engines) | ✓ 1 | 2 | 1 | 7/028 | 2 1/2 | 5 | 15.5 | 30 | VR | LCAB |
| Oil Fuel Pump (Gravity Tank) | ✓ 1 | 1 1/2 | 1 | 7/028 | 2 1/2 | 6 | 15.5 | 40 | VR | LCAB |
| Cargo Winch Forward | ✓ 1 | 10 | 1 | 19/036 | 10 | 41 | 39 | 140 | VR | LCAB |
| Cargo Winch Aft | ✓ 1 | 25 1/2 | 1 | 19/052 | 25 | 102 | 64.65 | 105 | VR | LCAB |
| Windlass | ✓ 1 | 24 | 1 | 19/044 | 16 | 80 | 53.49 | 180 | VR | LCAB |
| Lifeboat Hand Gear | ✓ 1 | 6 | 1 | 19/028 | 6 | 24 | 29 | 164 | VR | LCAB |
| Battery Motor | ✓ 1 | 7 | 1 | 19/036 | 10 | 23 | 38 | 30 | VR | LCAB |
| Rudder Motor | ✓ 1 | 6 | 1 | 19/036 | 10 | 23 | 49 | 34 | VR | LCAB |
| Rudder limit control Motor | ✓ 1 | .3 | 1 | 7/028 | 1 1/2 | 2.8 | 9.5 | 28 | VR | LCAB |



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The Electrical Equipment is installed in accordance with the approved plans and the requirements of the Rules.
All Insulated Conductors are guaranteed to have been tested at the maker's works as specified in the Rules.
The foregoing is a correct description.

Electrical Contractors.

Date

COMPASSES.

Have the compasses been adjusted under working conditions

Yes

Builder's Signature.

Date

Have the foregoing descriptions and schedules been verified and found correct

Is this installation a duplicate of a previous case

No

If so, state name of vessel

Plans. Are approved plans forwarded herewith

Yes

If not, state date of approval

Certificates. Are certificates of test for motors engaged on essential sea services and generators forwarded herewith

General Remarks. (State quality of workmanship, whether insulation tests, etc., have been made, opinions as to class, etc.)

The electrical equipment of this vessel has not been installed under Special Survey. The materials used have been examined & found to be of good quality and the workmanship is good. On completion trials of the equipment were witnessed with satisfactory results and the insulation resistance of each circuit was measured and found good. There is no wireless equipment on board.

Total Capacity of Generators 86.4 Kilowatts.

The amount of Fee ...

£ 40 : 0 : 0

When applied for,

29.12.1949

When received,

19

Travelling Expenses (if any) £

FRI. 9 JUN 1950

Committee's Minute

Assigned

Deferred

H. G. Bone

Surveyor to Lloyd's Register of Shipping.