

REPORT ON ELECTRICAL EQUIPMENT

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

Date of writing Report 30.11.60 19 When handed in at Local Office 30.11.60 19 Port of Piraeus

No. in Survey held at Piraeus Date, First Survey 23.6.60 Last Survey 27.10.60
Reg. Book (No. of Visits 6)

90642 on the S.S. "MANDO" Tons Gross Net

Built at By whom built Yard No. 312 When built 5-1930

Owners M. Pyliaros, F. Tziakos & Others Port belonging to Piraeus

Installation fitted by Sigalas Livanos - Zarinis When fitted 10/60
Radio telephone

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

Plans, have they been submitted and approved Yes. System of Distribution Two Wire Voltage of Lighting 110

Heating Power 110 D.C. or A.C. Lighting DC Power DC 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 Generators, are they compound wound Yes. and level compounded under working conditions Yes.

Are the generators arranged to run in parallel 2x60kw only Is the compound winding connected to the negative or positive pole Negative

Have machines 100 kw. and over been inspected by the Surveyors during manufacture and testing None Have certificates of test for machines

under 100 kw. been supplied and the results found as per Rule None. Position of Generators 1 Port - 1 stbd. and

one small emergency aft engine room at deck level.

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 One-ER Stbd.

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 Synthetic Insulation 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 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 Circuit breakers J.G. Statter & Co. Ltd. for both 60 kw generators, Type 3 No. 40/2180. Two pole switch for emergency diesel generator

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

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

ammeters Yes. voltmeters Yes. synchronising devices. For compound machines in parallel are the ammeters and reverse current protection devices connected on the pole opposite to the equaliser connection Yes. Earth Testing, state means provided Lamps

Preference Tripping, state if provided No. and tested

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

make of fuses are all fuses labelled Yes. If circuit breakers are provided for the generators, at what overload do they operate Stated 800 amps (not tested) and at what current do the reverse current protective

devices operate 6 amperes Cables, are they insulated and protected as per Rule Yes.

if otherwise than as per Rule are they of an Approved Type state maximum fall of pressure between bus bars and any point under maximum load volts. 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 Yes. if so, are they adequately protected Yes. State

type of cables (if in conduit this should also be stated) in machinery spaces Marine cables galleys None.

and laundries None. State how the cables are supported or protected Clipped to bearers and expanded metal trays. Cable below floor plates in piping.

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 None. Refrigerated chambers, are the cables and fittings as per Rule Yes.

Have refrigeration fan motors been constructed under survey Original and test certificates supplied

Are the motors accessible for maintenance at all times Yes.

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Insulation Tests, has the insulation resistance of all circuits and apparatus been tested and found satisfactory..... Yes.

ALL IMPORTANT MOTORS TO BE ENUMERATED	No.	B.H.P.						
Ball.& Bilge Pump(PSF ER)	1	3.7	2	25 mm ²	53	53	70'	Please see sample wiring
Ball.& Bilge Pump(PSA ER)	1	3.7	2	25 mm ²	45.5	45.5	70'	
Air compressor	1	8.45	2	35 mm ²	66.0	66.0	45'	
Air compressor cooling pump	1	0.84	2	4 mm ²	5.6	5.6	30'	
Windlass Motor	1	16	2	50 mm ²	130	130	240'	

insufficient

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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.

D. Lewis

Electrical Contractors.

Date

COMPASSES

Have the compasses been adjusted under working conditions

Yes

[Signature]

Builder's Signature.

Date

Have the foregoing descriptions and schedules been verified and found correct

Yes.

Is this installation a duplicate of a previous case

No.

If so, state name of vessel

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Plans. Are approved plans forwarded herewith

Yes.

If not, state date of approval

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

Not all.

General Remarks. (State quality of workmanship and materials, opinions as to class, etc.) The workmanship and materials fitted found good but with reference to the secretary's letters.

It is recommended that the electrical installation to have notation "Class Contemplated" subject to electrical installation being altered to rule requirements.

It will be noted that the main wiring for the 60 kw. generators are not of sufficient size for the full load outfit of the generators please see London letter dated 14.11.60.

Total Capacity of Generators Kilowatts.

The amount of Fee ... £ 90 : 18 0

When applied for,

7.1. 1961

When received,

19

Travelling Expenses (if any) £

S. Blakeman
Surveyor to Lloyd's Register of Shipping

Committee's Minute

TUESDAY - 2 MAY 1961

Assigned

See file 8839