

20 NOV 1959

Rpt. 13.

No. 8228

# REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

Date of writing Report 10.11.59 When handed in at Local Office 14.11.59 Port of Piraeus

No. in Survey held at Piraeus Date, First Survey 6.8.59 Last Survey 17.10.59  
Reg. Book. (No. of Visits 10)

12350 on the M.V. "GEORGIOS MANOLAKIS" Tons { Gross 10061 Net 5965

Built at Ham. By whom built Deutsche Werft, Reiherstiegwerft Yard No. 209 When built 1939

Owners Kydoniae Shipping Co. Ltd. Port belonging to Piraeus

Installation fitted by \_\_\_\_\_ When fitted \_\_\_\_\_

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

Plans, have they been submitted and approved \_\_\_\_\_ System of Distribution 2 wire Voltage of Lighting 110

Heating - Power 110 D.C. of A.C., Lighting - Power - 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 No. Is the compound winding connected to the negative or positive pole -

Have machines 100 kw. and over been inspected by the Surveyors during manufacture and testing No. Have certificates of test for machines

under 100 kw. been supplied and the results found as per Rule No. Position of Generators P.S. Forward and aft.

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 -

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 Marble, if of synthetic insulating

material is it an Approved Type - 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 1 Voltmeter, 1 Ampmeter, 2 main fuses, 1 double pole

switch, 1 regulator for each generator.

and the switch and fuse gear (or circuit breakers) for each outgoing circuit double pole switches with fuses(double).

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule Yes. Instruments on main switchboard 2

ammeters 2 voltmeters - synchronising devices. For compound machines in parallel are the ammeters and reverse current

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

with 2 pole switch Preference Tripping, state if provided None., and tested -

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

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

overload do they operate - and at what current do the reverse current protective

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

if otherwise than as per Rule are they of an Approved Type N.V., 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 -

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 - State

type of cables (if in conduit this should also be stated) in machinery spaces armoured rubber lead, galleys, armoured rubber lead

and laundries armoured rubber lead State how the cables are supported or protected trays and clips.

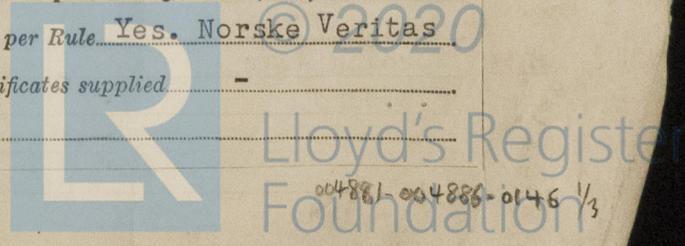
Are all lead sheaths, armouring and conduits effectually bonded and earthed Yes. Are all cables passing through decks and watertight

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

effectively bushed - Refrigerated chambers, are the cables and fittings as per Rule Yes. Norske Veritas

Have refrigeration fan motors been constructed under survey N.V. and test certificates supplied -

Are the motors accessible for maintenance at all times Yes.



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Rpt. 13 continuation.

Part of Piraeus

Continuation of Report No. 8228

dated 10.11.59

on the

"GEORGIOS MANOLAKIS"

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

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.			
						Rubber	lead armoured
1. Turning Lathe	4	20	22.5			"	"
2. Drilling machine	4	20	22.5			"	"
3. Shaping machine	4	20	22.5			"	"
4. Grinding machine	1.5	6	9.5			"	"
5. De-mag winch	25	80	63			"	"
6. Spare		6				"	"
7. 1. Separator	6	35	29			"	"
2. Separator	6	35	29			"	"
3. Separator	6	35	29			"	"

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

Navigation Lamps, are they separately wired. Yes. controlled by separate double pole switches and fuses. Yes. Are the switches and fuses in a position accessible only to the officers on watch. Yes. Is an alternative supply provided Yes

Secondary Batteries, are they constructed, fitted and adequately ventilated as per Rule. Yes. state battery capacity in ampere hours 30 Where required to do so does it comply with 1948 International Convention -

Lighting, is fluorescent lighting fitted. No. If so, state nominal lamp voltage - and compartments where lamps are fitted -

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, weatherproof Yes.

Searchlights, No. of -, whether fixed or portable -, are they of the carbon arc or of the filament type -

Heating and Cooking, is the general construction as per Rule -, are the frames effectually earthed -, are heaters in the accommodation of the convection type - Motors, are all motors constructed and installed as per Rule and placed in well-ventilated compartments in which inflammable gases cannot accumulate and protected from damage from water, steam and oil. Yes.

Are motors coupled to oil fuel transfer and pressure pumps capable of being stopped from a position accessible in the event of fire in the pump compartment. - Have motors of 100 BHP and over been inspected by the Surveyors during manufacture and testing No.

Have certificates of test for motors under 100 BHP intended for essential sea services been supplied and the results found as per Rule. No.

Lightning Conductors, where required are they fitted as per Rule -

Ships carrying Oil having a Flash Point of less than 150° F. Have all the special requirements of the Rules for such ships been complied with are all fuses of an Approved Cartridge Type Yes, make of fuse Siemens Are the fittings for pump rooms, tween deck spaces, etc., in accordance with the special requirements for such ships. Yes. Are all cables lead covered as per Rule. Yes.

E.S.D., if fitted state maker. Yes. location of transmitter and receiver On bridge

Spare Gear, if the vessel is for open sea service have spares been provided as per Rule and suitably stored in dry situations. Yes.

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

PARTICULARS OF GENERATING PLANT.

DESCRIPTION OF GENERATOR.	No. of	MAKER.	RATED AT				PRIME MOVER.	
			Kw. per Generator.	Volts.	Amps.	Revs. per Min.	TYPE.	MAKER.
MAIN	1	Gebr. Rademacher	22	115	200	400	steam	Deutch Werft.
	1	Otto Kroger & Coy. 6V221	22	115	200	550	diesel	36BHP Kockom MANType 93VU4
	1	Engberg Troy Pennsylvania	20	120	167	400	steam	Troy Engberg.
EMERGENCY ROTARY TRANSFORMER		20kw compound wound						

GENERATOR CABLES.

DESCRIPTION.	No. of	Kw.	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.			
MAIN GENERATOR	2	22	-	150/6	200	205		Rubber lead	Armoured
" EQUALISER	-								
EMERGENCY GENERATOR	-								
ROTARY TRANSFORMER: MOTOR	-								
" GENERATOR	-								

MAIN DISTRIBUTION CABLES (to Auxiliary Switchboards, etc.).

DESCRIPTION.	No. of	Kw.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	MAXIMUM CURRENT IN AMPERES.	APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
Lighting midship, forward	-	95	125	150		R. & L	Armoured.
Lighting aft Poop Deck	-	10	35	38		R. & L	"
Lighting aft main deck	-	10	35	38		R. & L	"
Workshop	-	70	125	125		R. & L	"
Separators	-	25	60	63		R. & L	"
Navigation lights	-	2.5	15	15.5		R. & L	"
Wireless Station	-	35	50	78		R. & L	"
Shore connection	-	90.5	-	150		R. & L	"
Steering gear	-	50	100	99			
Circulating water pump (boiler)	-	10	35	38			
Sanitary Pump	-	6	35	29			
Turning Gear	-	70	125	125			
F.W. pump	-	6	35	29			

NO X with rubber seal X

Both in pump room bed must be in good tight



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. Yes.

Is this installation a duplicate of a previous case. If so, state name of vessel.

Plans. Are approved plans forwarded herewith. 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 and materials, opinions as to class, etc.)

The workmanship and materials used in this installation are considered good and fit to be classed with this Society.

301251-Transfer. (MADE AND PRINTED IN ENGLAND.) (The Surveyors are requested not to write on or below the space for Committee's Minute.)

Total Capacity of Generators Kilowatts.

The amount of Fee ... £ : : When applied for, 10
Travelling Expenses (if any) £ : : When received, 10

E. J. Reid. Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRIDAY 4 MAR 1960

Assigned



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