

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

6 JUN 1958

Date of writing Report 29th May, 1958 When handed in at Local Office 31.5 1958 Port of TRIESTE

No. in Survey held at Trieste Date, First Survey Last Survey 19
Reg. Book.

42168 on the "MARIAROSA AUGUSTA" (No. of Visits 23108)

Built at Trieste By whom built C.R.D. Adriatico Yard No. 1826 When built 1958

Owners Soc. Armatoriale PRORA S.p.A. Port belonging to Palermo

Installation fitted by C.R.D. Adriatico - S. Marco When fitted 1958

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. - Radar yes

Plans, have they been submitted and approved. yes System of Distribution three wire insulated Voltage of Lighting 115

Heating Steam Power 440 D.C. or A.C., Lighting A.C. Power A.C. If A.C. state frequency 60

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, separately excited 110 V.

Are the generators arranged to run in parallel. yes 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. yes Have certificates of test for machines under 100 kw. been supplied and the results found as per Rule. yes Position of Generators starboardside aft. Main engine room on manoeuvring platform level. Emergency generator in upper deck house 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. starbd. side forward. Main engine room. Manoeuvring platform level.

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. dead front type, 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. - 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. three pole linked circuit breaker with overcurrent and reverse current releases,

and the switch and fuse gear (or circuit breakers) for each outgoing circuit. three pole linked circuit breaker with overcurrent release on each pole.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule. yes Instruments on main switchboard 16 ammeters. 3 voltmeters. 1 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. earth 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. F.E.R. Milan Stotz C.Bs. are all fuses labelled. yes If circuit breakers are provided for the generators, at what overload do they operate. 15% delayed. 50% instantaneous, and at what current do the reverse current protective devices operate. 5% reverse current 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. 2 volts. Are all paper insulated and varnished cambric insulated cables sealed at the ends. yes

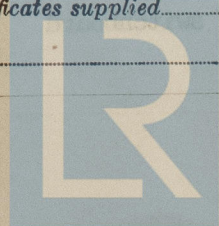
Are all the cable runs in accessible positions not exposed to drip or accumulation of water or oil, high temperatures or risk of mechanical damage. yes, are any cables laid under machines or floorplates. yes, if so, are they adequately protected. yes State type of cables (if in conduit this should also be stated) in machinery spaces. insulated cables lead over covered and steel

Run in conduit where required. cables supported and protected as per Rules. Steel braided or armoured. Run through conduit or fabricated steel channels as and where required.

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. yes Domestic / Refrigerated chambers, are the cables and fittings as per Rule. yes

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

Are the motors accessible for maintenance at all times.



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Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule...yes... Emergency Supply, state position emergency generator in upper deck house

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 automatic indicator fitted...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...40 and 165... Where required to do so does it comply with 1948 International Convention...yes...

Lighting, is fluorescent lighting fitted...yes... If so, state nominal lamp voltage...115... and compartments where lamps are fitted...main... engine room and boiler room

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, weatherproof...yes... or flame proof fittings as per section 15 of Rules fitted where required

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

Heating and Cooking, is the general construction as per Rule...yes... are the frames effectually earthed...yes... are heaters in the accommodation of the convection type...steam... 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...yes... Have motors of 100 BHP and over been inspected by the Surveyors during manufacture and testing...yes...

Have certificates of test for motors under 100 BHP intended for essential sea services been supplied and the results found as per Rule...yes... Lightning Conductors, where required are they fitted as per Rule...yes...

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...yes... are all fuses of an Approved Cartridge Type...yes... make of fuse...F.E.R. Milan... 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...ATLAS Werke... location of transmitter and receiver...frame N's. 113 - 114

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.	Ampères.	Revs. per Min.	TYPE.	MAKER.
MAIN ...	2	C.R.D. Adriatico	750	450	962	1200	Steam	Cantieri del Tirreno
Exciters	2	C.R.D. Adriatico	KW 12	110	109	1200	Turbine	
EMERGENCY ...	1	C.R.D. Adriatico	94	450	120	1200	H.O. Eng.	Siemens-Bremen A.G. München
Exciter	1	C.R.D. Adriatico	KW 2.3	110	20.9	1200		

GENERATOR CABLES.

DESCRIPTION.	No. of	Kw.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH IN METERS.	INSULATION.	PROTECTIVE COVERING.
			No. in Parallel per Pole.	Sectional Area sq. mm.	In the Circuit.	Rule.			
MAIN GENERATOR ...	2	600	5	3 x 160	962	1060	12	V.I.R.	Lead covered & steel braided
" " EQUALISER ...									
EMERGENCY GENERATOR ...	1	75	1	3 x 80	120	135	10	do	do
ROTARY TRANSFORMER: MOTOR ...									
" " GENERATOR ...									

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

DESCRIPTION.	No.	Sectional Area sq. mm.	MAXIMUM CURRENT IN AMPERES.	APPROX. LENGTH IN METERS.	INSULATION.	PROTECTIVE COVERING.
FM.1 Power to engine room	1	3 x 40	72 / 85	35	V.I.R.	Lead covered & steel braided
FM.2 Power to engine room	1	3 x 63	106 / 117	35	do	do
FC.1 Power to boiler room	1	3 x 25	56 / 63	30	do	do
FC.2 Power to boiler room	1	3 x 20	48 / 56	30	do	do
FL.2 Power & lighting E.R. & deck aft	1	3 x 63	118 / 117	20	do	do
FV.MC.1 Power to B.R. ventilation	1	3 x 63	104 / 117	20	do	do
FV.MC2 Power to E.R. & B.R. ventilation	1	3 x 63	98 / 117	15	do	do
FV.S.2 Power to ship ventilation aft	1	3 x 50	85 / 99	20	do	do
FV.S.3 Power to ship ventilation aft	1	3 x 50	85 / 99	45	do	do
FF Power to refrigeration plant	1	3 x 6.3	26 / 29	45	do	do
FO Power to E.R. workshop	1	3 x 6.3	13.7 / 29	45	do	do
Shore connection	1	3 x 160	250 / 212	60	do	do
Power to emergency switchboard	1	3 x 100	120 / 155	60	do	do

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

DESCRIPTION.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH IN METERS.	INSULATION.	PROTECTIVE COVERING.
	No. in Parallel per Pole.	Sectional Area sq. mm.	In the Circuit.	Rule.			
FVS.1 Power to ventilation forward	1	3 x 10	15.6	38	130	V.I.R.	Lead covered & steel braided
FL.E Power to bridge deck	1	3 x 100	68	155	25	do	do
FI.1 Power to upper deck	1	3 x 32	70	72	10	do	do
FI.2 Power to upper deck	1	3 x 16	20	49	10	do	do
FL.1 Power to centre bridge house	1	3 x 160	160	212	10	do	do
F2/1 Power bridge space	1	3 x 16	18	49	35	do	do
F2/2 Power to air conditioning	1	3 x 50	53	99	55	do	do
F2/3 Power to galley	1	3 x 68	72	117	55	do	do
F.6 Power to galley oven	1	3 x 63	78	117	20	do	do
L1/2 Lighting upper deck	1	3 x 16	24	49	15	do	do
L1/3 Lighting forward	1	3 x 16	25	49	10	do	do
L1/4 Lighting forward	1	3 x 25	9	63	70	do	do
Suez searchlight	1	2 x 32	15	72	85	do	do
L2/1 Lighting bridge space	1	3 x 16	18	49	35	do	do
L2/2 Lighting bridge space	1	3 x 16	22	49	30	do	do
L2/3 Lighting upper decks	1	3 x 10	20	38	20	do	do
L2/4 Lighting upper decks	1	3 x 10	23	38	20	do	do
L2/5 Lighting upper deck aft	1	3 x 10	23	38	25	do	do
L2/6 Lighting upper deck aft	1	3 x 10	25	38	20	do	do
L2/7 Lighting upper deck aft	1	3 x 10	11	38	50	do	do
L2/8 Lighting engine room	1	3 x 16	36	49	15	do	do
L2/9 Lighting engine room	1	3 x 16	38	49	15	do	do
L2/10 Lighting boiler room	1	3 x 16	32	49	25	do	do
Emergency supply							
VI/1-VI/2 Power to lifeboat winches	1	3 x 10	30	38	10	do	do
FEC Power to boiler room	1	3 x 6.3	16	29	40	do	do
FLE Power to bridge	1	3 x 100	68	155	25	do	do
LE/2 Emergency lighting E.R. - B.R. aft	1	3 x 32	28	73	50	do	do

MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.								
Steering gear	2	80	1	3 x 63	109	✓	117	60	V.I.R.	do
Main Condenser circ.water pump	1	145	1	3 x 125	177	✓	180	42	do	do
Aux. " " " "	1	46	1	3 x 25	60	✓	63	20	do	do
Main " extraction "	2	32	1	3 x 16	43.5	✓	49	26	do	do
Aux. " " " "	1	32	1	3 x 16	43.5	✓	49	16	do	do
Lubricating oil pumps	2	29.5	1	3 x 10	40	✓	38	46	do	do
Fuel oil service pumps	2	14	1	3 x 6.3	19	✓	29	25	do	do
Forced draft fans	3	138	1	3 x 125	182	✓	180	30	do	do
Circ.water to oil cooler	1	17.5	1	3 x 6.3	24	✓	29	45	do	do
Compressed air	1	31.5	1	3 x 10	42	✓	38	32	do	do
Emergency fire pump	1	55	1	3 x 20	71	✓	56	55	do	do
E.R. bilge pump	1	10.5	1	3 x 6.3	15	✓	29	25	do	do
Compressed air comb.control	2	14	1	3 x 6.3	20	✓	29	12	do	do
Sanitary & emergency	2	17	1	3 x 6.3	23	✓	29	15	do	do
E.R. & B.R. ventilation	6	20.5	1	3 x 6.3	27	✓	29	22/7	do	do
E.R. & B.R. Extraction	2	7	1	3 x 4	10	✓	22.5	38/ 5	do	do
Hot well F.W. transfer pump	2	20	1	3 x 10	26	✓	38	10/25	do	do

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 30th May 1958

COMPASSES.

Have the compasses been adjusted under working conditions? yes

Builder's Signature.

Date 30th May 1958

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

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? yes

General Remarks. (State quality of workmanship and materials, opinions as to class, etc.) The electric installation has been installed under special survey in accordance with the Secretary's letters, approved plans and Rule requirements.

(Including special requirements of Section 15).

The materials and workmanship are good.

On completion the installation was tested under full load and normal working conditions to Rule requirements and found in order.

The insulation resistance and voltage drop of circuits was tested and found to comply with the Rules

The electrical equipment and installation, in my opinion, is suitable for a classed ship having the

Notation : "Carrying Petroleum in bulk."

Total Capacity of Generators 1275 Kilowatts.

LIRE 497.250 - less 15%

The amount of Fee ... LIRE 422.663 - When applied for, 31.5 19.58

Travelling Expenses (if any) \$ 25.400 - When received, 19

Surveyor to Lloyd's Register of Shipping.

Committee's Minute. TUESDAY - 1 JUL 1958

Assigned See Rpt. 1



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