

29 MAR 1954.

Rpt. 13.

No. 5111

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

29 MAR 1954

Date of writing Report 3.3.54 When handed in at Local Office 19 Port of NAPLES

No. in Survey held at TARANTO Date, First Survey 20.10.53 2nd Survey 5.3.54
Reg. Book. (No. of Visits 10)

on the Motor Tanker "AGOSTINO FASSIO".

Tons

Built at Taranto

By whom built Cantieri Navali di Taranto

Hull No. 143

When built

Owners "FASSIO" S.A. di Navigazione.

Port belonging to Genoa.

Installation fitted by Cantieri Navali di Taranto.

When fitted 1954

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 Two wire insulated. Voltage of Lighting 110

Heating = Power 110 D.C. or A.C., Lighting D.C. Power D.C. 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 Yes 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. Yes Position of Generators On a platform at the

forward end of Engine Room. 2 steam P.Fwd. 1 Diesel S.Fwd.

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 Fwd. end of E.R. on

same platform as generators.

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. Micanite, 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. 3 = pole C.B. with O/C trip in positive and negative pole and R/C trip. Third pole used for equaliser.

and the switch and fuse gear (or circuit breakers) for each outgoing circuit. D.P. knife switches & D.P. fuses.

D.P.C.B. with O/C trip in each pole fitted on ventilator, fire pump & shore connection circuits.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule. Yes. Instruments on main switchboard 8

ammeters 4 voltmeters 1 Ohmmeter-Voltmeter. 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 E.lamps coupled to E. thro' switches & fuses, & Ohmmeter-Voltmeter. 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. Croci & Farinelli, are all fuses labelled "BZ" Ly. If circuit breakers are provided for the generators, at what overload do they operate at 800amps. 15 secs.

devices operate 80 amps. 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. =

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. Lead covered steel braided. LCB and laundries. = State how the cables are supported or protected. clipped to steel trays in E.R.

Galvanised steel tubing in Pump rooms. Galvanised steel casing on B.O.T. gangway.

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 Refrigerated chambers, are the cables and fittings as per Rule. =

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 Batteries situated S. fwd. E.R. on platform.

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 2 at 60 amp/hr..... 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 One....., whether fixed or portable Portable..... are they of the carbon arc or of the filament type Filament.....

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 Yes..... Have motors of 100 BHP and over been inspected by the Surveyors during manufacture and testing =.....

Have certificates of test for motors under 100 BHP intended for essential sea services been supplied and the results found as per Rule Yes.....

Lighting Conductors, where required are they fitted as per Rule Steel masts.....

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 Croci & Farinelli..... 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 Seavisa..... Location of transmitter and receiver In E.R. frames 46 - 47.....

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 D1 D2	2	Ansaldo San Giorgio	80	110	727	500	Steam	Ansaldo San Giorgio
" D3	1	" " "	45	110	409	500	Diesel	O.M. Milano
EMERGENCY ... ROTARY TRANSFORMER								

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 D1 D2	2	80	2	2 x 400	727	780	22	VIR	LCB
" " EQUALISER	1	45	1	1 x 400				"	"
" " D3	1	45	2	2 x 160	409	430	20	"	"
			1	1 x 160				"	"
EMERGENCY GENERATOR									
ROTARY TRANSFORMER: MOTOR									
" " GENERATOR									

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

DESCRIPTION.	No. of	Kw.	No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.	APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
SFC. Fans & R.T. Amidships.	1	125			89	180	200	VIR	LCB
FP. Galley Appliances.	1	125			161	180	90	3	"
SLC. Lights Amid. & Fwd.	1	80			106	136	160	"	"
FM. Pumps in E.R.	1	100			137	155	70	"	"
SF. Domestic Frig.	1	50			50	100	90	"	"
SFO. Workshop Tools.	1	50			96	100	40	"	"
SVp. Elec. Vents E.R. & Accom.	1	100			132	155	50	"	"
SVs. " " " " "	1	100			132	155	50	"	"
LM1 Lights in E.R.	1	10			25	35	20	"	"
LM2 " " "	1	10			29	35	20	"	"
LC1 Deck Lights.	1	6.3			18	25	40	"	"
LC2 " " "	1	6.3			19	25	40	"	"
LCd Boiler Flat Lights.	1	20			42	54	70	"	"
LCS1 Aft Accom. Lights.	1	10			26	35	50	"	"
LCS2 " " "	1	16			37	48	50	"	"

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

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.			
FM. Navigation Lights.	1	2.5	2.5	12	200	VIR	LCB
SIS Navigation Instruments.	1	50	64	100	200	"	"
IC1 Deck lights Aft.	1	20	39	54	50	"	"
IC2 " " Amidships.	1	63	65	116	200	"	"

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

FP/1 Power board No1 aft.	1	16	30	48	25	VIR	LCB
FP/2 " " No2 "	1	16	31	48	40	"	"
FP/3 " " No3 "	1	6.3	21	25	25	"	"
SFC/1 " " Amidships.	1	20	35	54	25	"	"
SLC/1 Lights Amidships.	1	16	42	48	20	"	"
SLC/2 " " "	1	6.3	22	25	20	"	"
SLC/3 " " "	1	4	10	16	20	"	"
SLC/4 " Forward.	1	4	5	16	100	"	"

MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P. KW.	No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.	APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
Fire Bilge & Sanitary Pm Purifiers.	1	25.76	1	250	263	295	30	VIR	LCB
Turning Motor.	3	HP 8.5	1	32	66.2	75	70	"	"
F.O. booster pumps.	1	4.4	1	16	48	48	50	"	"
Fuel Valve Cooling Pps.	2	1.32	1	4	17.2	18	20	"	"
	2	2.5	1	10	28	35	20	"	"

NOTE.—Use Rpt. 13 Continuation Sheet if the above space is insufficient.

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.

CANTIERI NAVALI DI TARANTO S.p.A.

Direzione Cantiere

Electrical Contractors.

Date 5.3.54

COMPASSES.

Have the compasses been adjusted under

CANTIERI NAVALI DI TARANTO S.p.A.

Direzione Cantiere

Builder's Signature.

Date 5.3.54

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 electrical equipment has been installed under Special Survey in accordance with the approved Plans and the Secretary's Letters, the arrangements being as shown on the approved plans or equivalent thereto. The materials and workmanship are good.

The equipment was tried under working conditions and found satisfactory and the insulation resistance of all circuits and apparatus measured and found good.

This equipment is in my opinion suitable for a classed vessel.

Total Capacity of Generators 205 ✓ Kilowatts.

Dual Class 15% Reduction

The amount of Fee ... Lit. 185,513

When applied for,

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When received,

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Travelling Expenses (if any) See Rpt 4b

Surveyor to Lloyd's Register of Shipping.

FRIDAY - 2 APR 1954

Committee's Minute

Assigned

See Rpt 4b