

Rpt. 13.

No. 0270

**REPORT ON ELECTRICAL EQUIPMENT.**

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

20 APR 1959

Date of writing Report 19 When handed in at Local Office 19 Port of Mestre (Venice)

No. in Survey held at Venice Date, First Survey 22. 11. 58 Last Survey 12. 3. 59  
Reg. Book. (No. of Visits Seventeen)92355 on the Motor Tanker "GIOVANNELLA D'AMICO" Tons Gross 12983  
Net 7676

Built at Venice By whom built Cantiere Navale Breda Yard No. 207 When built 3. 1959

Owners D'Amico Società di Navigazione - S.p.A. Port belonging to Palermo

Installation fitted by Cantiere Navale Breda When fitted 1958/1959

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 Yes System of Distribution Two wires constant pressure Voltage of Lighting 110

Heating None Power 220 D.C. or A.C., Lighting A.C. Power D.C. If A.C. state frequency 60 Hz

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 No Turbine 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 Yes Have certificates of test for machines

under 100 kw. been supplied and the results found as per Rule Yes Position of Generators E.R. p.s. - E.R. s.s. fwd.

E.R. s.s. 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 E.R. s.s.

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 switchboard, 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 Double pole C.B. with short circuit and overload relais on

each pole and with reverse current and preference tripping relais - Equalizer switch linked to the C.B.

and the switch and fuse gear (or circuit breakers) for each outgoing circuit Double pole C.B. with short circuit and overload

relais on each pole.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule Yes Instruments on main switchboard 13

ammeters 5 voltmeters 2 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 Earth

lamps and voltmeter Preference Tripping, state if provided Yes, and tested Yes

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

make of fuses FER. &amp; Croci Farinelli are all fuses labelled Yes If circuit breakers are provided for the generators, at what

overload do they operate 15% after 15 seconds, and at what current do the reverse current protective-

devices operate - 10% 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 9V.- power 5V.- lighting 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 - State

type of cables (if in conduit this should also be stated) in machinery spaces lead covered and steel galleys lead covered and steel

and laundries lead covered and steel braided. State how the cables are supported or protected secured by metal clips on supporting

plating as per Rule. braided.

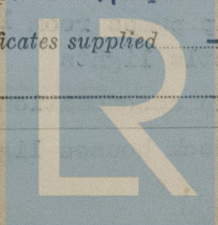
Are all lead sheaths, armouring and conduits effectually bonded and earthed Yes Are all cables passing through decks and watertight

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 As per rule in domestic chambers.

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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Foundation

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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 Supply, state position

Batteries fitted on E.R. upper platform s.s. Yes

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 100 Amps/hr. Where required to do so does it comply with 1948 International Convention. Not required

Lighting, is fluorescent lighting fitted Yes If so, state nominal lamp voltage 60 V. and compartments where lamps are fitted E.R. - B.R. Saloons - (The fluorescent tubes are of the hot cathode type)

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 fixed are they of the carbon arc or of the filament type 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 None 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 Not required

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 & FER 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 Sub. sig. Co. London Ltd. location of transmitter and receiver M.E. room fwd. cofferdam (fr. 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.	Amps.	Revs. per Min.	TYPE.	MAKER.
MAIN	3	Garbe, Lahmeyer & Co.	250	220	1136	550	Oil Eng.	M.A.N. Augsburg
EMERGENCY ROTARY TRANSFORMER	2	C.R.D.A. - O.E.M. - Monfalcone	62,5 KVA	115	313,5	1800	D.C. Elect. Motor	C.R.D.A. - OEM, Monfalcone

#### 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 sq. mm.	In the Circuit.	Rule.			
MAIN GENERATOR	2	250	3	250	1136	✓ 1420	120	V.C.	lead covered and steel braided.
EQUALISER	1	-	3	125	-	✓ 915	60	V.C.	lead covered and steel braided.
EMERGENCY GENERATOR	2	56,5	1	160	280	✓ 360	45	V.C.	lead covered and steel braided.
ROTARY TRANSFORMER: MOTOR	2	62,5 KVA	2	100	313,5	✓ 372	45	V.C.	lead covered and steel braided.
GENERATOR									

#### MAIN DISTRIBUTION CABLES (to Section Boards and Auxiliary Switchboards, etc.).

Reference mark on approved drawing and DESCRIPTION.

F 7/12 Work shop sub board	1	20	55	✓ 66	90	V.C.	lead covered and steel braided
F11/8 Laundry sub board	1	10	50	✓ 44	30	V.C.	lead covered and steel braided
F11/1 Galley sub board	1	10	30	✓ 44	90	V.C.	lead covered and steel braided
L 28/1 Upper deck lights s.s.	1	10	31	✓ 44	45	V.C.	lead covered and steel braided
L 28/2 Upper deck lights p.s.	1	10	20	✓ 44	45	V.C.	lead covered and steel braided
L 28/3 Galley lights	1	10	16	✓ 44	120	V.C.	lead covered and steel braided
L 28/4 Aft accommodation lights	1	10	16	✓ 44	90	V.C.	lead covered and steel braided
L 28/5 Aft pumps room lights s.s.	1	1,2	2	✓ 6	60	V.R.	lead covered and steel braided
L 28/6 Aft pumps room lights p.s.	1	1,2	2	✓ 6	60	V.R.	lead covered and steel braided
L 30/1 Bridge signals switchboard (reserve feeding)	1	10	10	✓ 44	100	V.C.	lead covered and steel braided
L 30/2 Amidship pumps room lights s.s.	1	1	2	✓ 6	90	V.R.	lead covered and steel braided
L 30/3 Amidship pumps room lights p.s.	1	1	2	✓ 6	90	V.R.	lead covered and steel braided
L 30/4 Forecastle lights	1	10	10	✓ 44	150	V.C.	lead covered and steel braided
L 30/5 Amidship accommodation lights	1	10	26	✓ 44	30	V.C.	lead covered and steel braided
L 30/6 Lower deck houses lights	1	10	40	✓ 44	60	V.C.	lead covered and steel braided

#### MAIN DISTRIBUTION CABLES (to Section Boards and Auxiliary Switchboards, etc.).

Reference number on approved drawings and DESCRIPTION.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
	No. in Parallel per Pole.	Sectional Area sq. mm.	In the Circuit.	Rule.			
4 M.E. Essential services switchboard (normal feeding)	1	80	178	✓ 230	90	V.C.	lead covered and steel braided
7 E.R. p.s. switchboard	1	63	169	✓ 198	270	V.C.	lead covered and steel braided
9 E.R. Ventilation switchboard	1	40	112	✓ 148	270	V.C.	lead covered and steel braided
10 Bridge 220 V. switchboard	1	10	23	✓ 63	750	V.C.	lead covered and steel braided
11 Refrigerating machinery switchboard	1	40	114	✓ 148	180	V.C.	lead covered and steel braided
16 M.E. essential service switchboard (reserve feeding)	1	80	178	✓ 230	90	V.C.	lead covered and steel braided
19 E.R. s.s. switchboard	1	50	125	✓ 169	120	V.C.	lead covered and steel braided
21 Radio switchboard (normal feeding)	1	40	22	✓ 148	750	V.C.	lead covered and steel braided
22 Aft ventilation switchboard	1	40	102	✓ 148	360	V.C.	lead covered and steel braided
23 Bridge main switchboard	1	50	130	✓ 169	700	V.C.	lead covered and steel braided
24 Shore connection	1	200	300	✓ 415	300	V.C.	lead covered and steel braided
25 Galley 110 V. switchboard	1	32	50	✓ 88	180	V.C.	lead covered and steel braided
26 No. 1 E.R. lighting switchboard	1	10	33	✓ 44	60	V.C.	lead covered and steel braided
27 No. 2 E.R. lighting switchboard	1	10	33	✓ 44	150	V.C.	lead covered and steel braided
28 Aft accommodations lighting switchboard	2	32	95	✓ 88	120	V.C.	lead covered and steel braided
29 Poop decks lighting switchboard	1	20	30	✓ 66	180	V.C.	lead covered and steel braided
30 Amidship accommodation lighting switchboard	1	100	90	✓ 186	350	V.C.	lead covered and steel braided
31 Bridge decks lighting switchboard	1	20	20	✓ 66	350	V.C.	lead covered and steel braided
32 Bridge signals switchboard (Normal feed)	1	10	10	✓ 44	375	V.C.	lead covered and steel braided
33 Navigation light switchboard (Normal feed)	1	4	2,5	✓ 16	375	V.R.	lead covered and steel braided
34 Battery charging switchboard	1	2,5	10	✓ 10	120	V.R.	lead covered and steel braided

#### MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.						
Steering pumps	2	25	1	32	95	✓ 128	390	V.C.
Lubricating Oil pumps	2	150	2	160	525	✓ 720	300	V.C.
Main, cooling pumps	3	60	1	125	220	✓ 305	420	V.C.
Aux. Engine cooling pumps	3	11	1	10	43	✓ 63	25	V.C.
O.F. Service pumps	2	3,3	1	4	13	✓ 16	100	V.C.
O.F. transfer pumps	1	24	1	32	93	✓ 128	60	V.C.
O.F. transfer pump	1	9,5	1	10	38	✓ 63	60	V.C.
Exhaust boiler feed pumps	2	3	1	4	12,5	✓ 16	180	V.C.
Fire pump	1	25	1	40	76	✓ 148	240	V.C.
General service pump	1	30	1	40	115	✓ 148	180	V.C.
Eng. room fans	4	9	1	10	36	✓ 44	156	V.C.
Valves cooling pumps	2	3,5	1	4	15,8	✓ 16	500	V.C.

Cables marked \* are three - core cables.

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.

CANTIERE NAVALE BREDA S.p.A.

UN VICE DIRETTORE

(with Eng. Luigi Signoretto)

Electrical Contractors.

Date

- 7 APR 1959

*[Signature]*

#### COMPASSES.

Have the compasses been adjusted under working conditions. Yes

CANTIERE NAVALE BREDA S.p.A.

UN VICE DIRETTORE

(with Eng. Luigi Signoretto)

Builder's Signature.

Date

- 7 APR 1959

*[Signature]*

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. No If not, state date of approval. 13th May, 1958

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 Rule requirements, the Secretary's letters and approved plans. The materials and workmanship are good.

On completion the installation has been tried under full working conditions and the insulation resistance tested, all with satisfactory results.

In our opinion this installation is eligible for full classification.

Total Capacity of Generators. 750 Kilowatts.

LIT. 348.750. less 15% LIT. 296.437

The amount of Fee ...

When applied for,

13. 4. 19. 59

When received,

19.

OFF 2

Travelling Expenses (if any) £

63.818

*[Signature]*

Surveyor to Lloyd's Register of Shipping.

Committee's Minute. FRIDAY - 3 JUL 1959

Assigned

See Rpt. 1.



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