

Rpt. 13.

No. 13043

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report.....19..... When handed in at Local Office.....18.3.47..... Port of Trieste Received at London Office.....29 MAR 1947

No. in Survey held at Monfalcone Date, First Survey 6.6.46 Last Survey 28.2.47
Reg. Book. on the M/s Antonio Zotti (Number of Visits 10)

Built at Monfalcone By whom built Cant. Riun. dell'Adriatic Yard No. 1329 Tons { Gross 6200
Owners "Italia" S.A. di Navigaz. Port belonging to Genoa Net 3621

Electrical Installation fitted by CRDA Officine Elettromeccaniche Contract No. 1329 When fitted 1946

Is vessel fitted for carrying Petroleum in bulk yes Is vessel equipped with D.F. no E.S.D. no Gy.C. no Sub.Sig. no

Have plans been submitted and approved yes System of Distribution Two wires Voltage of supply for Lighting 110

Heating..... Power 110 Direct or Alternating Current, Lighting direct Power direct If Alternating Current state frequency..... Prime Movers,
has the governing been tested and found efficient when the whole load is suddenly thrown on and off..... Are turbine emergency governors fitted with a

trip switch as per Rule..... Generators, are they compound wound no, are they level compounded under working conditions Equilibrium Poles,
if not compound wound state distance between generators 10' and from switchboard 15' Where more than one generator is fitted are they

arranged to run in parallel no, are shunt field regulators provided yes Is the compound winding connected to the negative or positive pole
..... Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing none Have certificates of

test for machines under 100 kw. been supplied yes and the results found as per rule yes Are the lubricating arrangements and the construction
of the generators as per rule yes Position of Generators in ER Port side platform

....., is the ventilation in way of generators satisfactory yes are they clear of inflammable material yes, if situated
near unprotected combustible material state distance from same horizontally..... and vertically....., are the generators protected from mechanical

injury and damage from water, steam and oil yes, are the bedplates and frames earthed yes and the prime movers and generators in metallic
contact yes Switchboards, where are main switchboards placed near Generators

..... are they in accessible positions, free from inflammable gases and acid fumes yes, are they protected from mechanical injury and damage from water, steam
and oil yes, if situated near unprotected combustible material state distance from same horizontally..... and vertically....., what insulation

material is used for the panels porcelain and Mica on steel, if of synthetic insulating material is it an Approved Type....., if of
panels semi-insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule..... Is the frame effectually earthed yes

Is the construction as per Rule yes, including accessibility of parts yes, absence of fuses on the back of the board double face, individual fuses
to pilot and earth lamps, voltmeters, etc. yes locking of screws and nuts yes, labelling of apparatus and fuses yes, fuses on the "dead"

side of switches yes Description of Main Switchgear for each generator and arrangement of equaliser switches Double pole circuit
breaker with instantaneous and time overload device

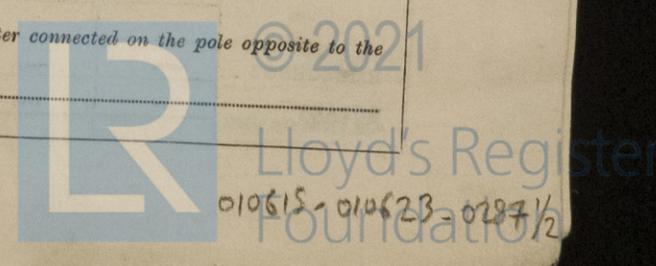
..... and for each outgoing circuit Double pole, double throw, link switches with fuse to each pole for circuits
below 100 A and with overload circuit breaker to the circuits above 100 A

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule ER Instruments on main switchboard 3

ammeters 4 voltmeters..... synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to the

equaliser connection yes Earth Testing, state means provided Voltmeters-meggers

Sum
9/5/47



Switches, Circuit Breakers and Fuses, are they as per Rule yes, are the fuses an approved type Dizzed, are all fuses labeled as per Rule yes, are the reversed current protection devices connected on the pole opposite to the equaliser connection —, have they been tested under working conditions yes. Joint Boxes, Section Boards and Distribution Boards, is the construction and position as per Rule yes. Cables, are they insulated and protected as per the appropriate Tables of the Rules 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 3 V, are the ends of all cables having a sectional area of 0.04 square inch and above provided with soldering sockets yes. Are paper insulated and varnished cambric insulated cables sealed at the exposed ends none with insulating compound — or waterproof insulating tape —. 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 cables laid under machines or floorplates yes, if so, are they adequately protected yes. Are cables in machinery spaces, galleys, laundries, etc., lead covered yes or run in conduit also. State how the cables are supported and protected Lead covered & steel braided in ER and accommodation. Lead covered & steel braided in tubes on deck and bridge space

Are all lead sheaths, armoring and conduits effectually bonded and earthed yes. Refrigerated chambers, are the cables and fittings as per Rule 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 effectually bushed yes and with what material lead bushes. Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule yes. Emergency Supply, state position none and method of control —

Navigation Lamps, are they separately wired yes controlled by separate double pole switches yes 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. Secondary Batteries, are they constructed and fitted as per Rule yes, are they adequately ventilated yes. Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, weatherproof yes. Are fittings installed where readily combustible materials or inflammable or explosive dust or gases are likely to be present yes, if so, how are they protected Gas tight lamps & Gas tight tubes

and where are the controlling switches fitted outside the space, are all fittings suitably ventilated yes, are all fittings and accessories constructed and installed as per Rule yes. Searchlight Lamps, No. of 1, whether fixed or portable fixed, are their fittings as per Rule yes. 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 yes and placed in well-ventilated compartments in which inflammable gases cannot accumulate and free from damage from water, steam and oil yes, if situated near unprotected combustible material state minimum distance from same horizontally — and vertically —

Have motors of 100 BHP and over been inspected by the Surveyors during manufacture and testing none. Have certificates of test for motors under 100 BHP intended for essential services been supplied and the results found as per Rule yes. Control Gear and Resistances, are they constructed and fitted as per Rule yes. Lightning Conductors, where required are they fitted as per Rule steel masts. Ships carrying Oil having a Flash Point less than 150° F. Have all the special requirements of the Rules for such ships been complied with yes, are all fuses of the cartridge type yes

are they of an approved type yes. If portable lamps for use in dangerous spaces are supplied, are they of a self-contained battery-fed flameproof type yes. Spare Gear, if the vessel is for open sea service have spares been provided as per Rule yes, are they suitably stored in dry situations yes. Insulation Tests, has the insulation resistance of all circuits and apparatus been megger tested and found satisfactory yes

PARTICULARS OF GENERATING PLANT.

DESCRIPTION OF GENERATOR.	No. of	RATED AT				DRIVEN BY	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE.	
		Kilowatts.	Volts.	Ampères.	Revs. per Min.		Fuel Used.	Flash Point of Fuel.
MAIN ...	2	20 x 2	110	182	400	1 Steam Eng. 1 Diesel Eng.	Diesel oil	
EMERGENCY ...	—	—	—	—	—	—	—	
ROTARY TRANSFORMER	—	—	—	—	—	—	—	

GENERATOR CABLES.

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATED WITH.	HOW PROTECTED.
		No. in Parallel Per Pole.	Sectional Area No. and Dia. of Strands Sq. inch or sq. mm.	In the Circuit.	Rule.			
MAIN GENERATOR 1 & 2	20	1	147	182	203	90	rubber	Lead cov. & steel braided
" " EQUALISER	—	—	—	—	—	—	—	—
EMERGENCY GENERATOR	—	—	—	—	—	—	—	—
ROTARY TRANSFORMER: MOTOR	—	—	—	—	—	—	—	—
" " GENERATOR	—	—	—	—	—	—	—	—

MAIN DISTRIBUTION CABLES.

AUX. SWITCHBOARDS AND SECTION BOARDS ...	No.	Sectional Area	MAXIMUM CURRENT	APPROX. LENGTH	INSULATED WITH.	HOW PROTECTED.
Work Shop SB No 5	1	38	68.3	83	100	rubber Lead covered steel braided
ER Power SB No 6	x 1	116	164	220	90	" " " " "
Deck distrib. Board No 7	x 1	147	190	278	30	" " " " "
ER distrib. Board No 10	1	38	46	83	120	" " " " "
Substation Forw No 11	1	8	4	35	740	" " " " "
" Centre No 12	1	38	43	83	450	" " " " "
" Aft No 13	1	48	46	95	210	" " " " "
Second Battery No 16	1	445	7	24	30	" " " " "

LIGHTING AND HEATING, ETC., CABLES.

DESCRIPTION.	No.	Sectional Area	MAXIMUM CURRENT	APPROX. LENGTH	INSULATED WITH.	HOW PROTECTED.
WIRELESS SB No 8	1	42	30	87	410	" " " " "
NAVIGATION LIGHTS S.B. 15	1	445	27	24	410	" " " " "
LIGHTING AND HEATING Search Light No 4	1	60	60	115	900	" " " " "
Substation aft No 14	1	21.5	26	58	220	" " " " "
Shore connection	1	147	182	197	420	" " " " "
Terminal Circuits	1	1.5	(for all circuits)	—	—	Lead covered

MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.	Sectional Area	MAXIMUM CURRENT	APPROX. LENGTH	INSULATED WITH.	HOW PROTECTED.
Eng Turning	1	8.5	38	78	83	130	rubber Lead covered steel braided
Oil Fuel Feed Pumps	2	5	11	34	48	110	" " " " "
Oil Purifiers	3	5	11	32	48	80	" " " " "
Work Shop	3	3	4.45	13	24	220	" " " " "

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 RIUNITI DELL'ADRIATICO
Officina Elettromeccanica

[Signature]

Electrical Engineers.

Date *March 11/1947*

COMPASSES.

Minimum distance between electric generators or motors and standard compass *300'*

Minimum distance between electric generators or motors and steering compass *300'*

The nearest cables to the compasses are as follows:—

A cable carrying *3* Ampères *10* feet from standard compass *14* feet from steering compass.

A cable carrying *one lamp* Ampères *in the* feet from standard compass *one lamp* feet from steering compass.

A cable carrying Ampères feet from standard compass feet from steering compass.

Have the compasses been adjusted with and without the electric installation at work at full power *yes*

Has the effect of switching on and off circuits, motors and other electro-magnetic apparatus within the vicinity of the compasses been noted *yes*

The maximum deviation due to electric currents was found to be *none* degrees on course in the case of the standard compass, and degrees on course in the case of the steering compass.

CANTIERI RIUNITI DELL'ADRIATICO
Officina Elettromeccanica

[Signature]

Builder's Signature.

Date *March 11/1947*

Is this installation a duplicate of a previous case *no* If so, state name of vessel

General Remarks (State quality of workmanship, whether insulation tests, etc., have been made, opinions as to class, etc.) *This electrical equipment has been fitted on board under special survey in accordance with the approved plans. The material and workmanship are good. The whole installation has been examined in working condition. Insulating condition tested and found in order.*

Total Capacity of Generators *40* Kilowatts.

The amount of Fee ... £ : : When applied for,19.....
Travelling Expenses (if any) £ : : When received,19.....

[Signature]
Surveyor to Lloyd's Register of Shipping

MAR 11 JUL 1947

Committee's Minute

Assigned *See F.E. mch. rpt.*

2m.10.38.—Transfer. (MADE IN ENGLAND.) (The Surveyors are requested not to write on or below the space for Committee's Minute.)



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