

# REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

2 - SEP 1946

Date of writing Report.....19..... When handed in at Local Office.....23/8/47..... Port of Trieste  
 No. in Survey held at Monfalcone Date, First Survey 6/2/46 Last Survey 5/8/47  
 Reg. Book. MS "JANUS" (Number of Visits.....) Tons {Gross.....6273  
 Net.....3701  
 Built at Monfalcone By whom built Lantieri Riuniti dell'Industria Card No. 1384 When built.....  
 Owners Western Chartering Co. Port belonging to Panama City  
 Electrical Installation fitted by CRDA Officine Elettromeccaniche Contract No. 1384 When fitted 1944  
 Is vessel fitted for carrying Petroleum in bulk yes Is vessel equipped with D.F. no E.S.D. yes Gy. C. table fitted Sub. Sig. no  
 Have plans been submitted and approved yes System of Distribution two wire Voltage of supply for Lighting 110  
 Heating — Power 140 Direct or Alternating Current, Lighting direct Power direct If Alternating Current state periodicity — Prime Movers,  
 has the governing been tested and found as per Rule when full load is suddenly thrown on and off yes Are turbine emergency governors fitted with a  
 trip switch as per Rule — Generators, are they compound wound yes, are they level compounded under working conditions yes,  
 if not compound wound state distance between generators — and from switchboard — 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  
negative Have machines over 100 kw. 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 — Are the lubricating arrangements and the construction  
 of the generators as per rule yes Position of Generators in E.R. platform port side  
—, 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 steel with porcelain 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 yes 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 yes, 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 relay  
—  
 and for each outgoing circuit double pole double throw link switches with fuse to each  
pole and automatic circuit breaker f No 6, 7, & 9 circuit  
 Are compartments containing switchboards composed of fire-resisting material or lined as per Rule yes 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 — Earth Testing, state means provided Voltmeter  
 Switches, Circuit Breakers and Fuses, are they as per Rule yes, are the fuses an approved type yes, are all fuses labelled as  
 per Rule yes If circuit breakers are provided for the generators, at what overload current did they open when tested 2.25 x I<sub>n</sub> are the reversed current  
 protection devices connected on the pole opposite to the equaliser connection —, have they been tested under working conditions, and at what current  
 did they operate 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 ends —



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. no if so, are they adequately protected. — Are cables in machinery spaces, galleys, laundries, etc., lead covered. yes or run in conduit. — State how the cables are supported and protected. lead covered and steel braided cables supported by metal clips

Are all lead sheaths, armouring 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 effectively bushed. yes and with what material. lead Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule. yes Emergency Supply, state position. 25V-40 Amp Seccon dary battery in a WT box at the open air in the upper Bridge Deck and method of control. Switch board in the Officers accommodation

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 what is the battery capacity in ampere hours. 25V-40 Amp

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 fittings

and where are the controlling switches fitted. outside of 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. portable, 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. yes 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. — Are motors coupled to oil fuel transfer and unit 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. none Have certificates of test for motors under

100 BHP intended for essential services been supplied and the results found as per Rule. — Control Gear and Resistances, are they constructed and fitted as per Rule. yes Lightning Conductors, where required are they fitted as per Rule. steel mast 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. type Are the fittings for pump rooms, 'tween deck spaces, etc., in accordance with the special requirements for such ships. yes Are the cables lead covered as per Rule. 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 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 each	110	182	400	One by Diesel Motor One by Steam Motor	O.F.	above 150° F
EMERGENCY								
ROTARY TRANSFORMER								

#### GENERATOR CABLES.

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULA-TED WITH.	HOW PROTECTED.
		No. in Parallel Per Pole.	Sectional Area or No. and Dia. of Strands. Sq. in. or sq. mm.	In the Circuit.	Rule.			
MAIN GENERATOR	20	1	128	182	184	190	rubber	Steel braided
" " EQUALISER								
EMERGENCY GENERATOR								
ROTARY TRANSFORMER: MOTOR								
" " GENERATOR								

#### MAIN DISTRIBUTION CABLES.

DESCRIPTION.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULA-TED WITH.	HOW PROTECTED.
	No. in Parallel Per Pole.	Sectional Area or No. and Dia. of Strands. Sq. in. or sq. mm.	In the Circuit.	Rule.			
AUX. SWITCHBOARDS AND SECTION BOARDS							
Power in E.R.	1	128	182	184	100	rubber	Lead covered & Steel braided
Workshop S.B.	1	30	82	72	150	"	"
Power S.B. on Deck	1	128	150	184	185	"	"
Light in E.R.	1	29	44	72	120	"	"
Forward S.B. for Light	1	8	35	34	860	"	"
Centre S.B.	1	70	71	126	500	"	"
Aft S.B.	1	29	50	72	220	"	"
" " " " II	1	29	30	72	220	"	"
* For 75% load							

#### LIGHTING AND HEATING, ETC., CABLES.

WIRELESS	1	42	30	89	500	rubber	Lead covered & steel braided
NAVIGATION LIGHTS	1	4.4	3	23	700	"	"
LIGHTING AND HEATING							
Heater	1	1.5	3	17	30	"	"
"	1	4	9	22	30	"	"
Searchlight	1	70	60	126	900	"	"

#### MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.						
Eng. turning gear	1	10	1	29	78	72	130	rubber
O.F. service Pump	1	2.5	1	8	21	34	270	Lead covered & steel braided
O.F. purifier	1	4	1	11.4	32	41	100	"
L.O. purifier	2	4	1	11.4	32	41	110	"
Lathe	1	1.6	1	4.5	18	23	60	"
Drilling Mach	1	1.5	1	4.5	13	23	50	"
Grinding Mach	1	3/4	1	3	9	20	50	"
* 1/2 h rating								



*The foregoing is a correct description.*

CANTIERI RIUNITI DELL'ADRIATICO  
OFFICINE ELETTROMECCANICHE

### *Electrical Engineers.*

Date 20.8.47

COMPASSES.

Minimum distance between electric generators or motors and standard compass..

Minimum distance between electric generators or motors and steering compass.

230

*The nearest cables to the compasses are as follows:—*

A cable carrying 1 Ampères 20 feet from standard compass 20 feet from steering compass.

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

*A cable carrying ..... Amperes ..... 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 none degrees on ..... <sup>81</sup> course in the case of the steering compass.

Builder's Signature.

Date \_\_\_\_\_

Is this installation a duplicate of a previous case.....no

If so, state name of vessel

**Plans.** *Are approved plans forwarded herewith.*

If not, state date of a

Certificates. Are certificates of test for motors engaged on essential services and generators forwarded herewith yes

*General Remarks (State quality of workmanship, whether insulation tests, etc., have been made, opinions as to class, etc.)*

This Electrical equipment has been made under special survey in accordance with the Rules and approved plans. The material and workmanship are good. The installation tested in working condition and found in order. The insulating condition of the machinery, switch boards and cables tested to 500 volts and found satisfactory.

-noted

30. 10. 17.

Total Capacity of Generators.....40.....Kilowatts.

The amount of Fee ...

Li. 65000

When applied for,

27/8/41

Travelling Expenses (if any)

When received.

## Committee's Minute

FRI. 9 JAN 1948

*Assigned*

See ye machy rft.

*R. F. Sparre*  
Surveyor to Lloyd's Register of Shipping

Surveyor to Lloyd's Register of Shipping

Form 439.—Transfer. (MADE AND PRINTED IN ENGLAND.)

5m.4.39.—Transfer (MADE AND PRINTED IN ENGLAND.)

5m.439.—Transfer.

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