

Rpt. 13.

No. 13997

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

3 - AUG 1954

Received at London Office

Date of writing Report 23rd June 1954 When handed in at Local Office 26.7.1954 Port of TRIESTE

No. in Survey held at Monfalcone Date, First Survey Please see Last Survey 2st. 46.19
Reg. Book. (No. of Visits)25153 on the "FIECCOLA" Tons { Gross 12.460
Net 7.487

Built at Monfalcone By whom built Cant. Riva dell'Adriatic Yard No. 1787 When built 1954

Owners "CITMAR" Cia Ital. Trasporti Marittimi Port belonging to VENICE

Installation fitted by Cantieri Riuniti dell'Adriatico When fitted 1954

Is vessel equipped for carrying Petroleum in bulk. ☒ Is vessel equipped with D.F. ☒ E.S.D. ☒ Gy.C. ☒ Sub.Sig. ☒ Radar ☒Plans, have they been submitted and approved. ☒ System of Distribution two wire Voltage of Lighting 110Heating ☒ Power 220 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. ☒ Are turbine emergency governors fitted with a trip switch. ☒ Generators, are they compound wound. ☒ and level compounded under working conditions. ☒if not compound wound state distance between generators. ☒ and from switchboard. ☒ Are the generators arranged to run in parallel. ☒ are shunt field regulators provided. ☒ Is the compound winding connected to the negative or positive pole negativeHave machines over 100 kw. been inspected by the Surveyors during manufacture and testing. ☒ Have certificates of test for machines under 100 kw. been supplied. ☒ and the results found as per Rule. ☒

Position of Generators 1 mch. space stbd. - 2 mch. space port

is the ventilation in way of generators satisfactory. ☒ are they clear of inflammable material and protected from mechanical injury and damage from water, steam and oil. ☒ Switchboards, where are main switchboards placed port side - mch. space higher platformare they in accessible positions, free from inflammable gases and acid fumes and protected from mechanical injury and damage from water, steam and oil. ☒ what insulation is used for the panels. ^{steel} (dead front type) porcelain, 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. ☒ Description of Main Switchgear

for each generator and arrangement of equaliser switches. double pole circuit breaker with overload trip on each pole, reverse current trip and interlocked equalizer switch for the 230 kW generators -

Double pole circuit breaker commutator with overload trip on each pole for the 30 kW generator -

and the switch and fuse gear (or circuit breakers) for each outgoing circuit. double pole circuit breaker with overload trip on each pole or double pole switch with fuse on each pole -

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule. ☒ Instruments on main switchboard 22
ammeters 8 voltmeters ☒ synchronising devices. For compound machines in parallel are the ammeters and reversed currentprotection devices connected on the pole opposite to the equaliser connection. ☒ Earth Testing, state means provided 1 voltmeter with 2 indicating lampsSwitches, Circuit Breakers and Fuses, are they as per Rule. ☒ are the fuses an Approved Type. ☒make of fuses F. E. R. (Mipaw), are all fuses labelled. ☒ If circuit breakers are provided for the generators, at what

overload do they operate 40%, and at what current do the reversed current protective devices operate 100%

Joint Boxes, Section Boards and Distribution Boards, is the construction as per Rule. ☒Cables, are they insulated and protected as per Rule. ☒ 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 6.2 Volts, are the ends of all cables having a sectional area of 0.01 square inch and above provided with soldering sockets. ☒ Are all paper insulated and varnished cambric insulatedcables 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. ☒ are any cables laid under machines or floorplates. ☒ if so, are theyadequately protected. ☒ Are cables in machinery spaces, galleys, laundries, etc., lead covered. ☒ or run in conduit. ☒or of the "HR" type. ☒ State how the cables are supported or protected

clipped and supported as per Rules - steel braided armoured cables

Are all lead sheaths, armouring and conduits effectually bonded and earthed. ☒ Are all cables passing through decks and watertightbulkheads provided with deck tubes or watertight glands. ☒ where unarmoured cables pass through beams, etc., are the holeseffectively bushed. none Refrigerated chambers, are the cables and fittings as per Rule. ☒

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Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule... yes... Auxiliary Supply, state position Emergency Supply, state position Emergency

1.30 kW 220V 2500W steam engine generator - Main engine room highest platform portside

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 and fitted as per Rule... yes... are they adequately ventilated... yes... state battery capacity in ampere hours... 24 Volts - 80 Amps/h.

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, weatherproof... yes... Are any 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... Flameproof type of approved design in the bridge tween deck space and where are the controlling switches fitted... bridge... Are all fittings suitably ventilated... yes...

Searchlight Lamps, No. of... 1... 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... 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 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... Control Gear and Resistances, are they constructed and fitted as per Rule... yes... Lightning Conductors, where required are they fitted as per Rule... yes... 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 an Approved Cartridge Type... yes... make of fuse... Storz C/B... 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... E.S.D., if fitted state maker... Sub Sign Co. Lou... location of transmitter... Fore H1/H2... and receiver... Aft H1/H2... 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.	
			Kilowatts per Generator.	Volts.	Ampères.	Revs. per Min.	TYPE.	MAKER.
MAIN ...	3	Cant. Rinn. dell' Adriat.	230	220	1045	500	HSC - SF	Cant. Rinn. dell' Adriat.
AUXILIARY	1	"	30	220	136	400	Steam Eng.	Franco Tosi - Legnano
EMERGENCY	2	"	40	110	364	2000	Elect. Motor	Cant. Rinn. dell' Adriat.
ROTARY TRANSFORMER								

GENERATOR CABLES.

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
		No. in Parallel per Pole.	Sectional Area of Strands. Sq. inches or sq. mm.	In the Circuit.	Rule.			
MAIN GENERATOR ...	230	3	400 x 3	1045	1164	40	Rubber	Lead cov. - Steel braid.
" " EQUALISER ...	✓	2	315 x 2	✓	662	20	"	"
AUXILIARY	30	1	100	136	158	30	"	"
EMERGENCY GENERATOR ...	(60 H)	1	200	220	249	30	"	"
ROTARY TRANSFORMER: MOTOR	40	1	400	364	388	30	"	"
" " Equaliser	✓	1	200	✓	249	15	"	"

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

DESCRIPTION.								
Machine power section board	FM 1	1	25	51	62	80	Rubber	Lead cov. - Steel braid.
"	FM 2	1	100	112	158	100	"	"
"	FM 3	1	40	52	82	110	"	"
"	FM 4	1	100	122	158	140	"	"
Deck power section board	SC 1	1	32	61	72	90	"	"
"	SC 2	1	80	80	136	185	"	"
Workshop section board	FO	1	25	33	62	50	"	"
Air condit.	TV	1	40	71	83	60	"	"
Deck lighting amidship	SLC 2	3	80	150	136	185	"	"
" aft	SLC 1	1	200	174	249	60	"	"
Engine lighting	SLM	1	80	120	136	20	"	"
Miscellaneous (220 v)	SV	1	25	17	62	210	"	"

LIGHTING, HEATING, WIRELESS, NAVIGATION LIGHTS, ETC., CABLES.

DESCRIPTION.		CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
		No. in Parallel per Pole.	Sectional Area of Strands. Sq. inches or sq. mm.	In the Circuit.	Rule.			
Wireless	RT	1	32	30V	72	190	Rubber	Lead cov. - Steel braid.
Navigation lighting	RFN	1	4	2V	21	220	"	"
Miscellaneous (110v)	SV	1	16	15V	48	220	"	"
Searchlight (Suez Projector)		1	20	14V	57	420	"	"
Cyroc compass		1	6.3	12V	30	170	"	"
Cyroc pilot		1	2.5	4V	11	170	"	"
Radar		1	6.3	12V	30	26	"	"
Eng. Room lighting Sect. b.	LM 1	1	25	52V	62	32	"	"
"	LM 2	1	25	51V	62	28	"	"
Boiler Room	LMC	1	10	17V	37	48	"	"
Accommodation	LC 1	1	10	10V	37	110	"	"
"	LC 2	1	10	25V	37	36	"	"
"	LC 3	1	16	31V	48	42	"	"
"	LC 4	1	16	35V	48	20	"	"
"	LC 5	1	25	49V	62	52	"	"
"	LC 6	1	10	22V	37	32	"	"
Deck lighting	LCE 1	1	32	51V	72	30	"	"
"	LCE 2	1	40	53V	83	24	"	"

MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.						
Sub. oil pumps	2	100	1	400	365	388	60	Rubber
S.W. & F.W. cooling pumps	3	61	1	200	222	249	60	"
Turning gear	1	15	1	25	59	62	60	"
Eng. space fans	2	0.5	1	16	38	48	65	"
Steering gear	1	20	1	40	78.5	83	50	"
Fuel valves cooling pumps	2	2.5	1	4	11.8	21	50	"
Fuel oil feeding pumps	2	1.25	1	2.5	6	11	40	"
Refrigerated store comp.	1	11.5	1	16	46	48	20	"



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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
CANTIERE NAVALE MONFALCONE

Electrical Contractors.

Date.

2 LUO 1954

COMPASSES.

Have the compasses been adjusted under working conditions.

yes

CANTIERI RIUNITI DELL'ADRIATICO
CANTIERE NAVALE MONFALCONE

Builder's Signature.

Date.

2 LUO 1954

Have the foregoing descriptions and schedules been verified and found correct.

yes

Is this installation a duplicate of a previous case.

yes

If so, state name of vessel.

"FIAMME" C.R.D.A. Vard 1776

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, whether insulation tests, etc., have been made, opinions as to class, etc.)

The electrical installation of this vessel has been fitted under Special Survey in accordance with or equivalent to Rule requirements and approved plans.

The workmanship and materials are good.

On completion the plant was tried under full working conditions, the insulation resistance tested and all found satisfactory.

In my opinion, this installation is eligible for full classification.

noted as
24/9/54

Total Capacity of Generators 720 ✓ Kilowatts.

Less 15% for dual class

The amount of Fee ... £ 351,900. =

When applied for,

26 7 19 54

Car Fund 8,797. =

When received,

19

Travelling Expenses (if any) £ 8,798. =

Rev Tax 3% 11,085.

Committee's Minute FRIDAY 1 OCT 1954

Assigned See Rpt. 4

DUAL CLASS
L.R. & R.I.

Deleoni

Surveyor to Lloyd's Register of Shipping.

(MADE AND PRINTED IN ENGLAND.)
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

AGC
11.8.54



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