

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

30 SEP 1926

Date of writing Report 18 Sep 1926 When handed in at Local Office 18 Sep 1926 Port of Trieste

No. in Survey held at Monfalcone Date, First Survey Mar 15th Last Survey Sep 7th 1926
Reg. Book. 84756 on the M. S. Tergestina (Number of Visits Eight)

Tons { Gross 5891
Net 3709

Built at Monfalcone By whom built laniere Nav. Triest. Yard No. 157 When built 1926

Owners S. A. di Navig. Vap. G. L. Remuda Port belonging to Trieste

Electric Light Installation fitted by laniere Navale Triestino Contract No. _____ When fitted 1926

System of Distribution Two wire

Pressure of supply for Lighting 110 volts, Heating none volts, Power 220 volts.

Direct or Alternating Current, Lighting Direct Power Direct

If alternating current system, state frequency of periods per second 50.

Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off yes

Generators, do they comply with the requirements regarding rating yes, are they compound wound yes
are they over compounded 5 per cent. yes, if not compound wound state distance between each generator 4.

Where more than one generator is fitted are they arranged to run in parallel yes, is an adjustable regulating resistance fitted in series with each shunt field yes

Are all terminals accessible, clearly marked, and furnished with sockets yes, are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched yes Are the lubricating arrangements of the generators as per Rule yes

Position of Generators In E. P. platform. Two generators fore, one starb.

is the ventilation in way of the generators satisfactory yes, are they clear of all inflammable material yes

if situated near unprotected woodwork or other combustible material, state distance of same horizontally from or vertically above the generators 4 and 4, are the generators protected from mechanical injury and damage from water, steam or oil yes

are their axes of rotation fore and aft yes

Earthing, are the bed-plates and foundations of the generating plant efficiently earthed yes are the prime movers and their respective generators in metallic contact yes

Main Switch Boards, where placed In Engine room fore side

If the generators and main switchboard are not placed in the same compartment, is each generator provided with a fuse on each insulated pole as near as possible to the terminals of the generator, additional to that provided on the main switchboard 4.

Switchboards, are they placed in accessible positions, free from inflammable gases and acid fumes yes

are they protected from mechanical injury and damage from water, steam or oil yes, if situated near unprotected woodwork or other combustible material, state distance of same horizontally from or vertically above the switchboards 4 and 4

are they constructed wholly of durable, non-ignitable non-absorbent materials yes, is all insulation of high dielectric strength and of permanently high insulation resistance yes

if semi-insulating material is used, are all conducting parts insulated from the slab with mica or micaite or other non-hygroscopic insulating material, and the slab similarly insulated from its framework both poles are insulated

and is the frame effectively earthed yes Are the fittings as per rule regarding: — spacing or shielding of live parts yes, accessibility of all parts yes, absence of fuses on back of board yes, proportion of omnibus bars yes, individual fuses to voltmeter, pilot or earth lamp yes, connections of switches yes

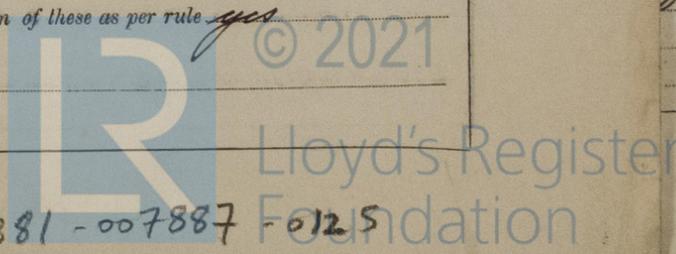
Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches Each generator has a two pole automatic circuit breaker with interlocked switches for equalizer. Automatic switch to one pole and a link switch and fuse on other pole to each circuit for power. Double pole link switches with fuse to each pole for steering engine and lighting. Double pole link switch and fuse for Rotary transformer.

Instruments on main switchboard 10 ammeters 5 voltmeters _____ synchronising device for paralleling purposes.

Earth Testing, state what means are provided at the main switchboard for indicating the state of the insulation of the system contacts for voltmeter

Switches, Circuit Breakers and Fusible Cut-outs, do these comply with the requirements of the Rules yes

Joint Boxes Section and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule yes



Cables: Single, twin, concentric, or multicore *single* are the cables insulated and protected as per Tables IV or V of the Rules *yes*

Fall of Pressure, state maximum between bus bars and any point of the installation under maximum load

Cable Sockets and other connections, are the ends of all cables having a sectional area of 0.04 square inch and above provided with soldering sockets

yes
Paper Insulated Cables. If cables are paper covered, is the dielectric at the exposed ends of the conductor protected from moisture by being suitably sealed with insulating compound *none*

Cable Runs, are the cables fixed as far as possible in accessible positions not exposed to drip or accumulation of water or oil, or to high temperature from boilers, steam pipes, uptakes or other hot objects, or to avoidable risk of mechanical damage *yes*

Support and Protection of Cables, state how the cables are supported and protected *Armoured or lead covered cables supported by clips*

If cables are run in wood casings, are the casings and caps secured by screws *✓*, are the cap screws of brass *✓*, are the cables run in separate grooves *✓*. If armoured and lead covered cables are secured by metal clips, are the clips spaced as per Table VIII *yes*

Refrigerated Chambers, if lights are fitted, are the cables and fittings in accordance with the special requirements *✓*

Joints in Cables, state if any, and how made, insulated, and protected *none*

Watertight Glands and Deck Tubes, are all cables passing through decks and watertight bulkheads provided with deck tubes or watertight glands *yes*

Bushes in Beams and Non-watertight Partitions, where unarmoured cables pass through beams and non-watertight partitions, are the holes efficiently bushed *yes* state the material of which the bushes are made *hard wood for lead covered cables*

Earthing Connections, state what earthing connections are fitted and their respective sectional areas *none*

are their connections made as per Rule *✓*

Alternative Lighting, are the groups of lights in the propelling machinery space arranged as per Rule *yes*

Emergency Supply, state position and method of control of the emergency supply and how the generator is driven *none*

Navigation Lamps, are these separately wired *yes*, controlled by separate switch and separate fuses *yes*, are the fuses double pole *yes*, are the switches and fuses grouped in a position accessible only to the officers on watch *yes*

has each navigation lamp an automatic indicator as per Rule *yes*

Secondary Batteries, are they constructed and fitted as per Rule *none*

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and where exposed to drip or condensed moisture, watertight *yes*, are any fittings placed in spaces in which goods are liable to be stacked in close proximity to them; if so, how are they protected *none*

are any fittings placed in spaces where inflammable or explosive dust or gases are liable to be present, if so, how are they protected *✓*, how are the cables led

where are the controlling switches situated *✓*

Searchlight Lamps, No. of *none*, whether fixed or portable *✓*, are their fittings as per Rule *✓*

Arc Lamps, other than searchlight lamps, No. of *✓*, are their live parts insulated from the frame or case *✓*, are their fittings as per Rule *✓*

Motors, are their working parts readily accessible *yes*, are the coils self-contained and readily removable for replacement *yes*, are the brushes, brush holders, terminals and lubricating arrangements as per Rule *yes*, are the motors placed in well-ventilated compartments in which inflammable gases cannot accumulate and clear of all inflammable material *yes*

are they protected from mechanical injury and damage from water, steam or oil *yes*, are their axes of rotation fore and aft *yes*, if situated near unprotected woodwork or other combustible material, are the motors of the totally enclosed, pipe ventilated, forced draught, drip or flame proof type *✓*, if not of this type, state distance of the combustible material horizontally or vertically above the motors *✓* and *✓*

Control Gear and Resistances, are the generator field and motor speed regulators, starters and controllers constructed and fitted as per Rule *yes*

Lightning Conductors, where lightning conductors are required, are these fitted as per Rule *yes*

Ships carrying Oil having a Flash Point less than 150° F. Have the special requirements of the Rules been complied with regarding switches, joint boxes, section and distribution boards, protection of cables, method of distribution, lead of cables, lights and fittings *✓*

If portable lamps for use in dangerous spaces are supplied, are they of a type approved by the Home Office *✓*

PARTICULARS OF GENERATING PLANT.

DESCRIPTION OF GENERATOR.	No of	RATED AT				DRIVEN BY	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE.	
		Kilowatts.	Volts.	Amps.	Revs. per Min.		Fuel Used.	Flash Point of Fuel.
MAIN	3	66	220	300	400	12.2W (AEG)	Kerosene Oil	
AUXILIARY								
EMERGENCY								
ROTARY TRANSFORMER	1	15 1/2 / 13	220 / 110	83 / 118	1400	21 HP Electric Motor		

LIGHTING AND HEATING CONDUCTORS.

Ref. No.	DESCRIPTION.	No. of Conductors.	Effective Area of each Conductor Sq. mm.	COMPOSITION OF STRAND.		Total Maximum Current Amps.	Approximate Length (Lead and Return) Feet.	Insulated with	HOW PROTECTED.
				No.	Diameter.				
1.2.3	MAIN GENERATOR	1	300	61	2.5	300	60	rubber	Armoured
	EQUALISER CONNECTIONS	1	151	37	2.3			rubber	Armoured
	AUXILIARY GENERATOR								
	EMERGENCY GENERATOR								
10	ROTARY TRANSFORMER	1	51 7/4	19/37	1.9/1.5	83/118	90	rubber	Armoured
	AUXILIARY SWITCHBOARDS								
11	ENGINE ROOM	1	4	7	0.9	22	100	rubber	Armoured
	BOILER ROOM								
12	ACCOMMODATION Officers	1	4	7	0.9	16	400	rubber	Arm. & lead cover.
13	" Engineers	1	4	7	0.9	22	300	rubber	Arm. & lead cover.
14	" Crew	1	4	7	0.9	18	300	rubber	Arm. & lead cover.
16	WIRELESS	1	4	7	0.9	14	150	rubber	Armoured
17	SEARCHLIGHT plug	1	25	19	1.3	60	300	rubber	Armoured
12	MASTHEAD LIGHT	1	1.3	1	1	1	250	rubber	Armoured
12	SIDE LIGHTS	1	1.3	1	1	1	60	rubber	Armoured
12	COMPASS LIGHTS	1	1.3	1	1	0.5	25	rubber	Lead covered
12	POOP LIGHTS	1	1.3	1	1	1	250	rubber	Armoured
15	CARGO LIGHTS	1	4	7	0.9	14	250	rubber	Armoured
	ARC LAMPS								
	HEATERS								

MOTOR CONDUCTORS.

Ref. No.	DESCRIPTION.	No. of Motors.	Effective Area of each Conductor Sq. mm.	COMPOSITION OF STRAND.		Total Maximum Current Amps.	Approximate Length (Lead and Return) Feet.	Insulated with	HOW PROTECTED.
				No.	Diameter.				
5	BALLAST PUMP	1	51	19	1.9	99	80	rubber	Armoured
5	MAIN BILGE LINE PUMPS	1	11.5	7	1.5	39	80	rubber	Armoured
5	GENERAL SERVICE PUMP	1	4	7	0.9	19	50	rubber	Armoured
	EMERGENCY BILGE PUMP								
4	SANITARY PUMP	2	51	19	1.9	99	50	rubber	Armoured
4	CIRC. SEA WATER PUMPS								
	CIRC. FRESH WATER PUMPS								
	AIR COMPRESSOR								
5	FRESH WATER PUMP	1	4	7	0.9	8	80	rubber	Armoured
4	ENGINE TURNING GEAR	1	11.5	7	1.5	36	60	rubber	Armoured
	ENGINE REVERSING GEAR								
4	LUBRICATING OIL PUMPS								
5	OIL FUEL TRANSFER PUMP	1	25	19	1.3	59	60	rubber	Armoured
9	WINDLASS 1.4. taking	1	129	37	2.1	200	450	rubber	Armoured
6	WINCHES, FORWARD S.B.	6	300	61	2.5	382	90	rubber	Armoured
7	WINCHES, AFT S.B.	7	395	91	2.4	464	90	rubber	Armoured
	STEERING GEAR								
	(a) MOTOR GENERATOR								
8	(b) MAIN MOTOR	1	22	19	1.2	48	250	rubber	Armoured
4	WORKSHOP MOTOR	2	4	7	0.9	20	60	rubber	Armoured
	VENTILATING FANS								
4	To Aux. S.B. for Power	7	243	61	2.3	267	40	rubber	Armoured
5	To Aux. S.B. for Power	6	196	37	2.6	220	70	rubber	Armoured
6.2.7	From Aux. S.B. to 15H winches	8	25	19	1.3	59	200	rubber	Armoured
6.2.7	From Aux. S.B. to 22H winches	5	51	19	1.9	86	200	rubber	Armoured
4	Oil filter	1	4	7	0.9	8	30	rubber	Armoured
4	Oil pump for battery	1	4	7	0.9	16	120	rubber	Armoured

* 1/2 hour rating

All Conductors are of annealed copper conforming to British Standard Specification No. 7.
 The Insulated Conductors are guaranteed to withstand the immersion and resistance tests specified in the Rules.
 The foregoing is a correct description.)

A. Stewart

Electrical Engineers.

Date *17 Sept. 1926.*

COMPASSES.

Distance between electric generators or motors and standard compass *30 feet*

Distance between electric generators or motors and steering compass *35 feet*

The nearest cables to the compasses are as follows:—

A cable carrying *6* Amperes *8* feet from standard compass *8* feet from steering compass.

A cable carrying *0.3* Amperes *in the* feet from standard compass *in the* 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 *no*

The maximum deviation due to electric currents was found to be *1/2* degrees on *1/2* course in the case of the standard compass, and _____ degrees on _____ course in the case of the steering compass.

Cantiere Navale Triestino

M. ...

Builder's Signature.

Date *17 Sept. 1926*

Is this installation a duplicate of a previous case *yes* If so, state name of vessel *MS Col di Fama 155 CNT*
MS Monte Piava 156 CNT

General Remarks (State quality of workmanship, opinions as to class, &c. _____)

This installation has been made in accordance with the Rules. The material and workmanship are good; the whole installation and generators have been tested under full working condition and found satisfactory.



It is submitted that this vessel is eligible for THE RECORD. Elec. light.

AWD
1/10/26

Total Capacity of Generators *198* Kilowatts.

The amount of Fee ... *£14768.-* : :
 Travelling Expenses (if any) £ : :
 When applied for, _____ 19_____
 When received, *1-12-26* 19_____
666

A. ...
Surveyor to Lloyd's Register of Shipping

Committee's Minute **TUES. 5 OCT 1926**

Assigned _____

Im. 126.—Transfer. (The Surveyors are requested not to write on or below the space for Committee's Minute.)



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