

# REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report 26/2/30 When handed in at Local Office 6/3/30 Port of GENOA Received at London Office 10 MAR 1930

No. in Survey held at PETRA LIGURE & SAVONA Date, First Survey NOV. 13, 1929 Last Survey FEB 10<sup>th</sup>, 1930  
Reg. Book.

on the STEEL OIL BARGE "No 1." (Number of Visits 5)

Tons { Gross 108.24  
Net 1

Built at PETRA LIGURE By whom built MESSRS CANTIERE FEDERALE and No. 26 When built 1930

Owners "LA COLUMBIA" SOC. MARIT. PER TRASPORTO Port belonging to GENOA  
PI PETROLIO & DERIVATI.

Electric Light Installation fitted by CANTIERE FEDERALE Contract No. ✓ When fitted 1930

## System of Distribution

TWO WIRE.(FROM SHORE SUPPLY)Stowaway Barge

## Pressure of supply for Lighting

110.

volts, Heating

✓

volts, Power

110.

volts.

## Direct or Alternating Current, Lighting

DIRECT.

Power

DIRECT.

If alternating current system, state frequency of periods per second ✓

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

Generators, do they comply with the requirements regarding rating ✓

, are they compound wound ✓

are they over compounded 5 per cent. ✓

, if not compound wound state distance between each generator ✓

Where more than one generator is fitted are they arranged to run in parallel ✓

series with each shunt field ✓

Are all terminals accessible, clearly marked, and furnished with sockets ✓

short circuited, or touched ✓

Are the lubricating arrangements of the generators as per Rule ✓

## Position of Generators

is the ventilation in way of the generators satisfactory ✓

, are they clear of all inflammable material ✓

if situated near unprotected woodwork or other combustible material, state distance of same horizontally from or vertically above the generators ✓

and ✓

, are the generators protected from mechanical injury and damage from water, steam or oil ✓

are their axes of rotation fore and aft ✓

Earthing, are the bedplates and frames of the generating plant efficiently earthed ✓

are the prime movers and ✓

their respective generators in metallic contact ✓

## Main Switch Boards, where placed

✓

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 ✓

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.

woodwork or other combustible material, state distance of same horizontally from or vertically above the switchboards ✓

NO UNPROTECTED WOODWORK NEAR

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 micrite or other non-hygroscopic insulating material, and the slab similarly insulated from its framework ✓

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.

bars ✓

, 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

DOUBLE POLE SWITCH AND FUSE.

Instruments on main switchboard ONE.

ammeters

ONE.

voltmeters

✓

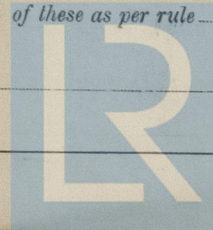
synchronising device for paralleling purposes.

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

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 TWIN. 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 ✓

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 CABLES RUN IN GALVANISED IRON PIPES.  
PIPES SUITABLY CLIPPED TO BULKHEAD.

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 ✓

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 SCREWED BRONZE GLANDS.

Earthing Connections, state which earthing connections are fitted and their respective sectional areas ✓

are their connections made as per Rule ✓

Alternative Lighting, are the groups of lights in the projecting machinery space arranged as per Rule ✓

Emergency Supply, state position and method of control of the emergency supply and how the generator is driven ✓

Navigation Lamps, are these separately wired ✓, controlled by separate switch and separate fuses ✓, are the fuses double pole ✓

are the switches and fuses grouped in a position accessible only to the officers on watch ✓

has each navigation lamp an automatic indicator as per Rule ✓

Secondary Batteries, are they constructed and fitted as per Rule ✓

Fittings, are all fittings on weather decks, in storerooms 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 ✓

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

ONE LIGHT IN PUMP ROOM, FITTED IN GAS TIGHT GLOBE. how are the cables led

where are the controlling switches situated IN MOTOR ROOM. ✓

Searchlight Lamps, No. of ✓, whether fixed or portable ✓, are their fittings as per Rule ✓

Are 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 NO.

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 NO UNPROTECTED WOODWORK NEAR

✓, if not of this type, state distance of the combustible material horizontally or vertically above the motors and YES.

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 ✓

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 YES.

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

## 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								
AUXILIARY								
EMERGENCY								
ROTARY TRANSFORMER								

## LIGHTING AND HEATING CONDUCTORS.

Ref. No.	DESCRIPTION.	No. of Conductors.	Effective Area of each Conductor Sq. In.	COMPOSITION OF STRAND.		Total Maximum Current Amps.	Approximate Length (Lead and Return) Feet.	Insulated with	HOW PROTECTED.
				No.	Diameter.				
	MAIN GENERATOR...	✓							
	EQUALISER CONNECTIONS	✓							
	AUXILIARY GENERATOR	✓							
	EMERGENCY GENERATOR	✓							
	ROTARY TRANSFORMER...	✓							
	AUXILIARY SWITCHBOARDS	✓							
	ENGINE ROOM	✓							
	BOILER ROOM	✓							
	ACCOMMODATION	✓							
	— " — CREW.	1.	0.950.	1.	1.100.	0.25.	16.	COPPER TINNED. PURE RUBBER.	ALL CONDUCTORS LEAD COVERED.
	PUMP ROOM.	1.	0.950.	1.	1.100.	0.25.	20.	WHITE AND BLACK TAPE. TWO RUBBERED TAPES.	IMPREGNATED PAPER, JUTE, STEEL BRAID COVERED WITH PROTECTIVE VARNISH.
	MOTOR ROOM.	1.	0.950.	1.	1.100.	0.25.	20.		ALL CONDUCTORS LEAD IN GALVANISED IRON PIPES.
	WIRELESS	✓							
	SEARCHLIGHT	✓							
	MASTHEAD LIGHT...	✓							
	SIDE LIGHTS...	✓							
	COMPASS LIGHTS	✓							
	POOP LIGHTS	✓							
	CARGO LIGHTS	✓							
	ARC LAMPS	✓							
	HEATERS	✓							

## MOTOR CONDUCTORS.

Ref. No.	DESCRIPTION.	No. of Motors.	Effective Area of each Conductor Sq. In.	COMPOSITION OF STRAND.		Total Maximum Current Amps.	Approximate Length (Lead and Return) Feet.	Insulated with	HOW PROTECTED.
				No.	Diameter.				
	BALLAST PUMP	1.	2.50.	19.	1.200.	57.0.	25	As ABOVE.	
	MAIN BILGE LINE PUMPS								
	GENERAL SERVICE PUMP								
	EMERGENCY BILGE PUMP								
	SANITARY PUMP								
	CIRC. SEA WATER PUMPS								
	CIRC. FRESH WATER PUMPS								
	AIR COMPRESSOR								
	FRESH WATER PUMP								
	ENGINE TURNING GEAR								
	ENGINE REVERSING GEAR								
	LUBRICATING OIL PUMPS								
	OIL FUEL TRANSFER PUMP								
	WINDLASS								
	WINCHES, FORWARD								
	WINCHES, AFT								
	STEERING GEAR—								
	(a) MOTOR GENERATOR								
	(b) MAIN MOTOR								
	WORKSHOP MOTOR								
	VENTILATING FANS								



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.

CANTIERE FEDERALE  
PER COSTRUZIONI NAVALI  
L'Amministratore Delegato

Electrical Engineers.

Date 26/2/30.

#### COMPASSES.

Distance between electric generators or motors and standard compass

✓

Distance between electric generators or motors and steering compass

✓

The nearest cables to the compasses are as follows:—

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

A cable carrying Ampères feet from standard compass 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

✓

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

✓

The maximum deviation due to electric currents was found to be

✓

degrees on

✓

course in the case of the standard

compass, and

✓

degrees on

✓

course in the case of the steering compass.

CANTIERE FEDERALE  
PER COSTRUZIONI NAVALI  
L'Amministratore Delegato

Builder's Signature.

Date 3/3/30.

Is this installation a duplicate of a previous case No. If so, state name of vessel

✓

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

THE ELECTRICAL INSTALLATION HAS BEEN SATISFACTORILY FITTED  
ON BOARD AND IS IN ACCORDANCE WITH THE APPROVED PLANS AND RULE  
REQUIREMENTS.

THE MATERIALS AND WORKMANSHIP ARE GOOD AND THE INSTALLATION  
WHEN TESTED UNDER WORKING CONDITIONS WAS FOUND SATISFACTORY.

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

Elec. Light

W.H.

14/3/30.

Total Capacity of Generators Kilowatts.

DUAL SURVEY  
L.R. & R.I.

The amount of Fee

£ 150.00

When applied for,  
6/3/30

M.

Travelling Expenses (if any)

£ 0.00

When received,  
23/4/30

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

Elec Light



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Lloyd's Register  
Foundation