

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 23 MAR 1926

Date of writing Report 22 March 1926 When handed in at Local Office 19 Port of Havre

No. in Survey held at Caen Date, First Survey August Last Survey 28 February 1926
Reg. Book. (Number of Visits.....5.....)

on the Frimaire Tons { Gross Net }
Built at Caen By whom built Ch^{iers} Navals Français Yard No. 39 When built

Owners Compagnie Annexe d'Armements Maritimes 31 Avenue de l'Opera Paris Port belonging to Rouen

Electric Light Installation fitted by Chantiers Navals Français Contract No. 39 When fitted 1925

System of Distribution Continuous double wire 1 Generator driven by steam engine

Pressure of supply for Lighting 410 volts, Heating volts, Power volts.

Direct or Alternating Current, Lighting Direct Power

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 yes

Generators, do they comply with the requirements regarding overload yes, are they compound wound yes

are they over compounded 5 per cent. yes, if not compound wound state distance between each generator

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

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

Position of Generators Engine Room

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

far from wood work and are the generators protected from mechanical injury and damage from water, steam or oil yes

are their axis of rotation fore and aft yes

Earthing, are the bedplates and frames of the generating plant efficiently earthed yes are the prime movers and their respective generators in metallic contact yes

Main Switch Boards, where placed Engine room

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, if situated near unprotected

woodwork or other combustible material, state distance of same horizontally from or vertically above the switchboards no wood work and at proximity

are they constructed wholly of durable, incombustible 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 connected to one pole

insulated from the slab with mica or micanite and the slab similarly insulated from its framework yes, and is the

frame effectively earthed yes Are the following fittings as per Rule, viz. :- spacing or shielding of live parts

yes, accessibility of all parts yes, absence of fuses on back of board none, proportion of omnibus

bars good, individual fuses to voltmeter, pilot or earth lamp yes, connections of switches good

Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches

Bipolaire with fuses in each pole

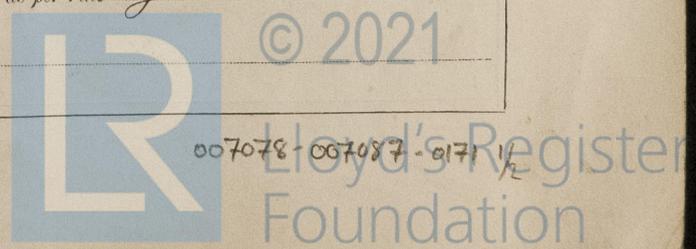
Instruments on main switchboard 1 ammeters 1 voltmeters synchronising device for paralleling purposes.

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

1 lamp each pole

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

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



Insulation of Cables, state type of cables, single or twin *single* are the cables insulated and protected as per Tables III or IV of the Rules *yes*

Fall of Pressure, state maximum between bus bars and any point of the installation under maximum load *5 volts*

Cable Sockets and other connections, are the ends of all cables having a sectional area of 0.007 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 *wood casing in the rooms salons etc. other parts with brass clips.*

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

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

Joints in Cables, state if any, and how made, insulated, and protected *Steel boxes insulated*

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

Bushes in Beams and Non-watertight Positions, 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 *lead and wood*

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

are their connections made as per Rule *L*

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*, are separate screens provided for the use of oil and electric side lights *yes*

are separate oil lanterns provided for the mast head lights and side lights *yes*

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever 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 *none*

how are the cables led

where are the controlling switches situated *L*

Searchlight Lamps, No. of *2*, whether fixed or portable *portable*, are their fittings as per Rule *yes*

Arc Lamps, other than searchlight lamps, No. of *none*, are their live parts insulated from the frame or case *L* are their fittings as per Rule *L*

Motors, are their working parts readily accessible *L*, are the coils self-contained and readily removable for replacement *L*

are the brushes, brush holders, terminals and lubricating arrangements as per Rule *L*, are the motors placed in well-ventilated compartments in which inflammable gases cannot accumulate and clear of all inflammable material *L*

are they protected from mechanical injury and damage from water, steam or oil *L* are their axis of rotation fore and aft *L*

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 *L* if not of this type, state distance of the combustible material horizontally or vertically above the motors *L* and *L*

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

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 *L*

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

PARTICULARS OF GENERATING PLANT.

DESCRIPTION OF GENERATOR.	No. of	RATED AT				DRIVEN BY.	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE.	
		Kilowatts.	Volts.	Amperes.	Revs. per Min.		Fuel Used.	Flash Point of Fuel.
MAIN ...	1	7 KW	110	63.63	1000	Steam engine	<i>L</i>	<i>L</i>
AUXILIARY ...	1	5 KW	110	41	1000	Oil driven		
EMERGENCY ...						4 1/2" - 6" Stroke		
ROTARY TRANSFORMER						Fitted S.W. See Note ref 99477.		

LIGHTING AND HEATING CONDUCTORS.

Ref. No.	DESCRIPTION.	No. of Conductors.	Effective Area of each Conductor. Sq. Ins.	COMPOSITION OF STRAND.		Total Maximum Current. Amperes.	Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
				No.	Diameter.				
	MAIN GENERATOR...	1	25.08	✓ 19	13/10	56 A	8"	Rubber	Lead
	AUXILIARY GENERATOR				none				
	EMERGENCY GENERATOR				none				
	ROTARY TRANSFORMER...				none				
	AUXILIARY SWITCHBOARDS	1	2.01	✓ 1	16/10	10.6	4	Rubber	Lead
	ENGINE ROOM	1	1.53	✓ 1	16/10	6.2	3.4		
	BOILER ROOM	1	1.13	✓ 1	12/10	2.2	1.8		
	Navigation lamps	1	1.53	✓ 1	14/10	2.84	50		
	Group A	1	12.36	✓ 7	15/10	23	2.0		
	Officer and Forecastle	1	1.13	✓ 1	12/10	4.5	20		
	Group B	1	1.13	✓ 1	12/10	4.5	20		
	Group C	1	10.77	✓ 7	14/10	13	4.8		
	Group D	1	7.14	✓ 7	11/10	9	1.8		
	Group E	1	5.49	✓ 7	10/10	5.7	7		
	Group F	1	0.95	✓ 1	11/10	3.4	6		
	Group G	1	1.76	✓ 1	15/10	4	6.6		
	Group H	1	1.76	✓ 1	15/10	4	8.4		
	WIRELESS at S.H.	1	6.65	✓ 7	9/10	13.6	5.8		
	SEARCHLIGHT	1	1.13	✓ 1	12/10	0.56	100		
	MASTHEAD LIGHT	1	1.13	✓ 1	12/10	0.56	20		
	SIDE LIGHTS	1	1.13	✓ 1	14/10	0.56	2.2		
	COMPASS LIGHTS	1	0.25	✓ 1	11/10	0.11	1.6		
	POOP LIGHTS	1	1.13	✓ 1	12/10	0.56	120		Armoured
	CARGO LIGHTS	2	0.23	✓ 1	11/10	0.27	20		
	ARC LAMPS								
	HEATERS								

MOTOR CONDUCTORS.

Ref. No.	DESCRIPTION.	No. of Motors.	Effective Area of each Conductor. Sq. Ins.	COMPOSITION OF STRAND.		Total Maximum Current. Amperes.	Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
				No.	Diameter.				
	BALLAST PUMP								
	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								
	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.

H. Heber Electrical Engineers. Date 22/3/26

COMPASSES.

Distance between electric generators or motors and standard compass 18 m
 Distance between electric generators or motors and steering compass 17 m
 The nearest cables to the compasses are as follows :—
 A cable carrying 3 Ampères 5 m feet from standard compass 4 m feet from steering compass.
 A cable carrying 0.14 Ampères 0.70 feet from standard compass 0.70 feet from steering compass.
 A cable carrying 0.35 Ampères 2 m feet from standard compass 2 m 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 *none*
 The maximum deviation due to electric currents was found to be *nil* degrees on *S* course in the case of the standard compass, and *nil* degrees on *S* course in the case of the steering compass.

H. Heber Builder's Signature. Date 22/3/26

Is this installation a duplicate of a previous case *yes* If so, state name of vessel *Vendemiaire Brunaire*

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

This electric installation has been verified found correct, tested and found in good condition the workmanship is good. This installation merit in my opinion the favourable consideration of the Committee for to be classed.

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

CMS JWD
 25/3/26

Total Capacity of Generators *7* Kilowatts
+ 5
12 Kw.

The amount of Fee ... *7* £ : *959* :
 Travelling Expenses (if any) £ : :
 When applied for, 22 March 1926
 When received, 20/3/26

J. Hamelen
 Surveyor to Lloyd's Register of Shipping.

Im. 9.24.—11: number. (The Surrogors are requested not to write on or below the space for Committee's Minute.)

Committee's Minute **FRI. 26 MAR 1926**
Elec Light
 Assigned

FRI. 7 MAY 1926



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