

# REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 20 APR 1931

Date of writing Report 17-4-1931 When handed in at Local Office 17-4-1931 Port of Rouen  
 No. in Survey held at Rouen Date, First Survey 17 February Last Survey 14 April 1931  
 Reg. Book. on the Steel sc "Alabama" (Number of Visits.....)  
 Built at Rouen by whom built Chantiers de Normandie Yard No. 56 When built 1930-31  
 Owners Compagnie Generale Transatlantique Port belonging to Havre  
 Electric Light Installation fitted by Chantiers de Normandie Contract No. When fitted 1931  
 Is the Vessel fitted for carrying Petroleum in bulk no

System of Distribution Double wire

Pressure of supply for Lighting 110 volts, Heating L volts, Power L volts.

Direct or Alternating Current, Lighting Direct Power L

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

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 L

Where more than one generator is fitted are they arranged to run in parallel no, 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 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

No Wood at proximity and L, 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 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 L

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 combustible material at proximity

are they constructed wholly of durable, non-ignitable non-absorbent materials yes marble, 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 micanite or other non-hygroscopic insulating material, and the slab similarly insulated from its framework yes.

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 none, proportion of omnibus

bars good, 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 For each generator

1 out going circuit bipolar & one fuse each pole. Each circuit one outgoing circuit with a fuse

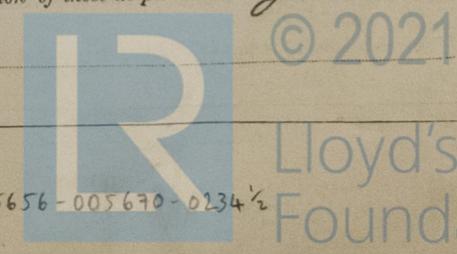
on each pole

Instruments on main switchboard each generator 1 ammeters each generator 1 voltmeters L 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 earth lamp.

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 4 Volts

**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 Cables are on galvanized perforated plate iron fixed by brackets. Cables are under lead and armoured.

If cables are run in wood casings, are the casings and caps secured by screws L, are the cap screws of brass L, are the cables run in separate grooves L. 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 no refrigerated cargo chambers

**Joints in Cables,** state if any, and how made, insulated, and protected joints made by means of junction boxes

**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 lead

**Earthing Connections,** state what earthing connections are fitted and their respective sectional areas 1 wire of 1/4 sq. in.  
are their connections made as per Rule yes

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

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

**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 L

**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 L

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

how are the cables led

where are the controlling switches situated L

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

**Are 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 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 yes, 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 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 L

If portable lamps for use in dangerous spaces are supplied, are they of a type approved by the Home Office none

**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	15	110	136	330	Steam		
AUXILIARY ...								
EMERGENCY ...								
ROTARY TRANSFORMER								

**GENERATOR, LIGHTING AND HEATING CONDUCTORS.**

DESCRIPTION.	No. per Pole.	CONDUCTORS. Total Effective Area per Pole Sq. Ins.	COMPOSITION OF STRAND.		TOTAL MAXIMUM CURRENT AMPERES.		Approximate Length (Lead and Return) Feet.	Insulated with	HOW PROTECTED.
			No.	Diameter.	In Circuit.	Rule.			
MAIN GENERATOR ...	1	84.7	37	17/10	136	138	18	Rubber	Lead armoured
EQUALISER CONNECTIONS ...									
AUXILIARY GENERATOR ...									
EMERGENCY GENERATOR ...									
ROTARY TRANSFORMER MOTOR GENERATOR ...									
ENGINE ROOM ...	1	25.2	19	13/10	34	64	120	Rubber	Lead armoured
BOILER ROOM ...									
AUXILIARY SWITCHBOARDS ...									
June end circuit	1	3.52	7	8/10	3	20	188		
Castle	1	29.2	19	14/10	33	69	108		
ACCOMMODATION Engineers ...	1	14.1	7	16/10	22	46	66		
Aft accommodation	1	14.1	7	16/10	13	46	116		
Base end hold and deck	1	29.2	19	14/10	42	69	150		
Aft hold and deck	1	14.1	7	16/10	35	46	90		
Galley	7	6.68	7	11/10	18	31	86		
WIRELESS ...	1	6.68	7	11/10	30	31	60		
SEARCHLIGHT ...									
MASTHEAD LIGHT ...	1	2.01	1	16/10	0.5	12.5	126		
SIDE LIGHTS ...	4	2.01	1	16/10	0.5	12.5	32		
COMPASS LIGHTS ...	1	7.0	1	11/10	0.25	6.5	12		
POOP LIGHTS ...	1	2.01	1	16/10	0.5	12.5	236		
CARGO LIGHTS ...									
ARC LAMPS ...									
HEATERS ...									

**MOTOR CONDUCTORS.**

DESCRIPTION.	No. of Motors.	CONDUCTORS. No. Per Pole.	CONDUCTORS. Total Effective Area per Pole Sq. Ins.	COMPOSITION OF STRAND.		TOTAL MAXIMUM CURRENT AMPERES.		Approximate Length (Lead and Return) Feet.	Insulated with	HOW PROTECTED.
				No.	Diameter.	In Circuit.	Rule.			
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—										
(a) MOTOR GENERATOR ...										
(b) MAIN MOTOR ...	2	1	2.01	1	16/10	5	12.5	40"	Rubber	Lead armoured
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.

CHANTIERS DE NORMANDIE  
 GRAND QUEVILLY (S. M.)

Electrical Engineers. Date

COMPASSES.

Distance between electric generators or motors and standard compass 35<sup>m</sup>.

Distance between electric generators or motors and steering compass 35<sup>m</sup>.

The nearest cables to the compasses are as follows:—

A cable carrying 3.5 Ampères 3<sup>m</sup> feet from standard compass 3<sup>m</sup> feet from steering compass.

A cable carrying 5 Ampères 3<sup>m</sup> feet from standard compass 3<sup>m</sup> 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 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 — degrees on — course in the case of the steering compass.

*[Handwritten signature]*

Builder's Signature. Date

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 electric installation has been surveyed during erection on board, the material used is of a good quality, the workmanship is good. The installation has been tested and the result found good. This electric fittings can in my opinion eligible to be classed.

It is submitted that this vessel is eligible for the ...

*Elec. Light*  
*J. H. 21/4/31*

Total Capacity of Generators Kilowatts.

The amount of Fee ... £ 1863. : When applied for, 17.4.1931

Travelling Expenses (if any) £ : When received, 6.5.31

*[Handwritten signature]*

Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 1 MAY 1931

Assigned Elec. Light

Im. 12.28.—Transfer. (The Surveyors are requested not to write on or below the space for Committee's Minute.)