

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 14 MAR 1931

Date of writing Report 11. 3. 31 When handed in at Local Office 11. 3. 31 Port of Middleburgh

No. in Survey held at Steektin, South Bank Date, First Survey 6. 2. 31. Last Survey 2. 3. 1931.

Reg. Book. on the No. NOTRE DAME DE FRANCE Tons { Gross 450. Net 274.

Built at Steektin on Iers By whom built Smiths Dock Co. Yard No. 950 When built 1931.

Owners Gournay Freres. Port belonging to Boulogne

Electric Light Installation fitted by RICHARD PICKERSGILL & SONS, LTD. 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 — 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 rating 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 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

Position of Generators Starboard side of Engine Room Yes

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 — and —, 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 Forward End of Engine Room Store Deckhead.

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 — and —

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 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 Yes, proportion of omnibus bars —, individual fuses to voltmeter, pilot or earth lamp Yes, connections of switches —

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

1 Double Pole Switch + fuses on main, Single Pole Switches + Double Pole fuses out outgoing circuits

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 2 Lamps in series across each pole to Guard

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 Dwire are the cables insulated and protected as per Tables IV Yes 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 Lead covered + Armoured cable

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 ---

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 Dynamo bearing to shell

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 ---

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

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

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, watertight Yes

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

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

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

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	1	5	110	45.5	430	Steam Engine		
AUXILIARY								
EMERGENCY								
ROTAry TRANSFORMER								

GENERATOR, LIGHTING AND HEATING CONDUCTORS.

DESCRIPTION.	CONDUCTORS.		COMPOSITION OF STRAND.		TOTAL MAXIMUM CURRENT. AMPERES.		Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
	No. per Pole.	Total Effective Area per Pole Sq. Ins.	No.	Diameter.	In Circuit.	Rule.			
MAIN GENERATOR	1	.02840	19	.044	36.9	53.0	247ft	43R. Lead Armoured + Braided	
EQUALISER CONNECTIONS									
AUXILIARY GENERATOR									
EMERGENCY GENERATOR									
ROTAry TRANSFORMER MOTOR GENERATOR	1	.00101	1	.036	6.0	24.0	20ft	43R. Lb. + Armoured	
ENGINE ROOM									
BOILER ROOM									
AUXILIARY SWITCHBOARDS									
ACCOMMODATION	1	.00101	1	.026	8.1	24.0	145ft	43R. Lb. + Armoured	
" Down	1	.00435	1	.029	6.2	18.2	240ft	43R. Lb.	
" Aft	1	.00455	1	.029	5.0	18.2	50ft	43R. Lb.	
WIRELESS	1	.00101	1	.036	10.0	24.0	140ft	43R. Lb. + Armoured	
SEARCHLIGHT	1	.00194	3	.029	.5	7.8	260ft	43R. Lb. + Armoured	
MASTHEAD LIGHT	1	.00194	3	.029	.5	7.8	60ft	43R. Lead covered	
SIDE LIGHTS	1	.00194	3	.029	.5	7.8	20ft	43R. Lb.	
COMPASS LIGHTS									
POOP LIGHTS									
CARGO LIGHTS									
ARC LAMPS									
HEATERS									

MOTOR CONDUCTORS.

DESCRIPTION.	No. of Motors.	CONDUCTORS.		COMPOSITION OF STRAND.		TOTAL MAXIMUM CURRENT. AMPERES.		Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
		No. Per Pole.	Total Effective Area per Pole Sq. Ins.	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										
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.

RICHARD PICKERSGILL & SONS, LTD.

A.H. Spence Electrical Engineers.

Date *March 6th 1931*

COMPASSES.

Distance between electric generators or motors and standard compass (Pole Compass) *About 47'-0"*

Distance between electric generators or motors and steering compass (Roof Compass) *" 42'-0"*

The nearest cables to the compasses are as follows:—

A cable carrying *.5* Ampères *about 12* feet from standard compass *(Pole)* *about 4* feet from *Roof* steering compass.

A cable carrying *.5* Ampères *about 12* feet from standard compass *(Pole)* *about 8* feet from *Roof* 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 *No* degrees on _____ course in the case of the standard

compass, and *No* degrees on _____ course in the case of the steering compass.

FOR SMITH'S DOCK COMPANY, LTD.

A.W. Townshend Builder's Signature.

Date *10th March 1931*

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 material and workmanship are good.
This electric light installation has been fitted aboard under special survey in accordance with the Rules. It has been tested under working conditions with satisfactory results and is, in my opinion, suitable for a vessel classed with this Society.*

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

*Elec Light
P.M. 10/3/31*

Total Capacity of Generators *5* Kilowatts.

The amount of Fee ... £ *5-0-0* When applied for, *13-3-1931*

Travelling Expenses (if any) £ : : *21/3/31* When received, *EBB*

P.M. Man
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 20 MAR 1931

Assigned

Elec Light