

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 10 SEP 1930

Date of writing Report 4. 7. 1930 When handed in at Local Office 11. 8. 1930 Port of GLASGOW.

No. in Survey held at GLASGOW. Date, First Survey 18. 6. 30 Last Survey 4. 7. 1930
Reg. Book.

49914 on the s.s. CITÉ DE LÉVIS

(Number of Visits 3)

Tons { Gross 1259

Net

Built at GLASGOW By whom built MESSRS NAPIER & MILLER LTD Yard No. 274 When built 1930

Owners MESSRS LEVIS FERRY LTD Port belonging to GLASGOW

Electric Light Installation fitted by MESSRS CLAUD HAMILTON LTD. Contract No. 274 When fitted 1930

System of Distribution

Pressure of supply for Lighting

110

volts, Heating

none

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

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

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 5 Sect 2

yes.

Position of Generators

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

none

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

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

Same compartment

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

none

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

yes.

with mica or micanite or other non-hygroscopic insulating material, and the slab similarly insulated from its framework

yes.

Are the fittings as per Rule regarding:— spacing or shielding of live parts

and is the frame effectively earthed

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

and fuses for generators and S.P. switches and D.P. main switches
going circuit and fuses for each out-

Instruments on main switchboard

2

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

Earth Lamps.

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.



© 2020

Lloyd's Register
Foundation

009122-009130-0142 1/2

0142 1/2

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 5 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 WOPZAP Yes
Paper Insulated Cables. If cables are paper covered, is the dielectric at the exposed ends of the conductors protected from moisture by being suitably sealed with insulating compound no paper
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 WOPZAP Yes
Support and Protection of Cables, state how the cables are supported and protected Y. 3. R. braided encased in enam. steel can and
If cables are run in wood casings, are the casings and caps secured by screws no casing 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 VIII Yes
Refrigerated Chambers, if lights are fitted, are the cables and fittings in accordance with the special requirements none
Joints in Cables, state if any, and how made, insulated, and protected no joints
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 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 4 Sec 19. 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 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 no
are any fittings placed in spaces where inflammable or explosive dust or gases are liable to be present, if so, how are they protected no
how are the cables led are their fittings as per Rule
Searchlight Lamps, No. of 1, whether fixed or portable fixed, are their fittings as per Rule Yes
Arc Lamps, other than searchlight lamps, No. of 0, are their live parts insulated from the frame or case 0, are their fittings as per Rule Yes
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 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 0
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. 0
If portable lamps for use in dangerous spaces are supplied, are they of a type approved by the Home Office 0

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	2	15	110	134	600	direct coupled to steam engine	-	-	
AUXILIARY									
EMERGENCY									
ROTARY TRANSFORMER									

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...	4	.150	34	.0427	1184	30	Y. I. R.	Lubing
	EQUALISER CONNECTIONS								
	AUXILIARY GENERATOR								
	EMERGENCY GENERATOR								
	ROTARY TRANSFORMER...								
	AUXILIARY SWITCHBOARDS								
	ENGINE ROOM	2	.009	4	.036	13	3	Y. I. R.	Lubing
	BOILER ROOM								
	ACCOMMODATION								
	all ducts	2	.010	4	.044	24	40	Y. I. R.	Lubing
	Yuk	2	.010	4	.044	25	50	Y. I. R.	Lubing
	Cabin off	2	.0045	4	.029	18	45	Y. I. R.	Lubing
	Amidships	2	.009	4	.036	19	60	Y. I. R.	"
	WIRELESS	2	.003	3	.036	5	120	Y. I. R.	Lubing
	SEARCHLIGHT	2	.002	3	.029	.5	60	Y. I. R.	"
	MASTHEAD LIGHT	4	.002	3	.029	.5	30	Y. I. R.	"
	SIDE LIGHTS	4	.002	3	.029	.3	25	Y. I. R.	"
	COMPASS LIGHTS								
	POOP LIGHTS								
	CARGO LIGHTS								
	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								
	(a) MOTOR GENERATOR								
	(b) MAIN MOTOR								
	WORKSHOP MOTOR								
	VENTILATING FANS								
	Refrigerator Motor	1	.007	7	.036	5	100	Y. I. R.	Lubing

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.

For CLAUD HAMILTON, LIMITED

W. Lawrence

MANAGER

Electrical Engineers.

Date 29th July 30.

COMPASSES.

Distance between electric generators or motors and standard compass 46 ft

Distance between electric generators or motors and steering compass 144 ft

The nearest cables to the compasses are as follows:—

A cable carrying 5 Amperes 10 feet from standard compass 10 feet from steering compass.

A cable carrying 2 Amperes 4 feet from standard compass 4 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

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

compass, and degrees on course in the case of the standard compass, and degrees on course in the case of the steering compass.

For NAPIER & MILLER, LIMITED.

John Woodruff

DIRECTOR.

Builder's Signature.

Date 6/8/30.

Is this installation a duplicate of a previous case

If so, state name of vessel

General Remarks

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

This installation has been fitted on board under special survey, tested under full working conditions and found satisfactory. The materials and workmanship were found to be good and sound.

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

Total Capacity of Generators 30 Kilowatts.

The amount of Fee ... £ 22. : 10

Travelling Expenses (if any) £

Committee's Minute

Assigned

GLASGOW 9-SEP-1930

FRI. 7 NOV 1930

Elec Light

Surveyor to Lloyd's Register of Shipping.



© 2020

Lloyd's Register Foundation