

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 17 DEC 1924

Date of writing Report 17. 11. 1924 When handed in at Local Office 13. 12. 24 Port of GLASGOW.

No. in Survey held at GLASGOW. Date, First Survey 20. 10. 24 Last Survey 27. 11. 1924
Reg. Book. 89639. on the "S. S. LUCISTON" (Number of Visits... 2)Tons { Gross 5,008
Net 3,176.

Built at PORT GLASGOW. By whom built R. DUNCAN & CO. Yard No. 360 When built 1924

Owners W. S. MILLER & CO. Port belonging to GLASGOW.

Electric Light Installation fitted by MESSRS GRINDLAY ROSS & CO. Contract No. 360 When fitted 1924

System of Distribution Double Wire

Pressure of supply for Lighting 110 volts, **Heating** --- volts, **Power** --- volts.

Direct or Alternating Current, Lighting Direct **Power** 12 K.W.

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 (Starboard Side)

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 ---

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 Store

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, 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 ---, and is the frame effectively earthed ---

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 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

D.P. Main switch and fuses and 5 D.P. Circuit switches and fuses.

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

Earth Lamps.

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



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Lloyd's Register
Foundation

W216-0037 1/2

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 ...	1	12	110	120	350	Vertical 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...	2	.1168	37	.064"	50	4 Yds.	V.I.R. <i>Le</i>	Marlin.
	AUXILIARY GENERATOR								
	EMERGENCY GENERATOR								
	ROTARY TRANSFORMER...								
	AUXILIARY SWITCHBOARDS								
	ENGINE ROOM ...	2	.003	1	.064	8	90"	- - <i>LC</i>	<i>Armoured</i>
	BOILER ROOM ...	2	.003	1	.064	8	90"	- - <i>LC</i>	<i>Armoured</i>
	WIRELESS ...	2	.007	7	.036	20	120 Yds.	V.I.R.	Armoured.
	SEARCHLIGHT								
	MASTHEAD LIGHT...	2	.0015	1	.044	.6	60 Yds.	V.I.R.	L.C. & In tubing.
	SIDE LIGHTS...	2	.0015	1	.044	.6	50 Yds.	V.I.R.	Tubing.
	COMPASS LIGHTS...	2	.0015	1	.044	.25	8 Yds.	V.I.R.	Lead Covered.
	POOP LIGHTS	2	.003	1	.064	4	66 Yds.	V.I.R.	Armoured.
	CARGO LIGHTS	2	.003	1	.064	4	20 Yds.	V.I.R.	Armoured.
	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.

FOR GRINDLAY ROSS & Co. LTD.

John S. Grindlay
MANAGING DIRECTOR

Electrical Engineers.

Date *8th Dec. 1924*

COMPASSES.

Distance between electric generators or motors and standard compass *108 ft*

Distance between electric generators or motors and steering compass *100 ft*

The nearest cables to the compasses are as follows:—

A cable carrying *6* Amperes *10* feet from standard compass *12* feet from steering compass.

A cable carrying *4* Amperes *8* feet from standard compass *10* feet from steering compass.

A cable carrying *3* Amperes *in* feet from standard compass *in* 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 *nil* degrees on *any* course in the case of the standard compass, and *nil* degrees on *any* course in the case of the steering compass.

Robert Duncan & Co. Ltd.

per Kelly

Builder's Signature.

Date *11/12/24*

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.)

This installation has been fitted on board under special survey listed under full working conditions and found satisfactory. The workmanship was found to be good and sound.

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

Elec. Light.

17/12/24

Total Capacity of Generators *12* Kilowatts

The amount of Fee ... *£12.0.0* : { When applied for, *Chk.*

Travelling Expenses (if any) £ : : { When received, *10.12.24*

Committee's Minute

Assigned

GLASGOW 16 DEC 1924

Elec. Light.

J. S. Rankin
Surveyor to Lloyd's Register of Shipping.



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