

REPORT ON ELECTRIC LIGHTING INSTALLATION. No. 17276.

Port of Greenock Date of First Survey 1st Feb, 1918 Date of Last Survey 17th April, 1918 No. of Visits 25
 No. in Reg. Book on the Iron or Steel 1.1 "Arglass" Port belonging to Greenock
 Built at James Hays By whom Samuel St When built 1910
 Owners _____ Owners' Address Greenock
 Yard No. 711 Electric Light Installation fitted by Samuel St When fitted 1910

DESCRIPTION OF DYNAMO, ENGINE, ETC.

One 10KW Compound Wound Generator coupled to Vertical 6hp Serrated 4 1/2hp double Acting Engine set by Messrs Clarke Chapman No of Generator 5632 No of Engine 2606
 Capacity of Dynamo 100 Amperes at 100 Volts, whether continuous or alternating current Continuous
 Where is Dynamo fixed Engine Room Whether single or double wire system is used Double
 Position of Main Switch Board Engine Room having switches to groups _____ of lights, &c., as below
 Positions of auxiliary switch boards and numbers of switches on each _____

If fuses are fitted on main switch board to the cables of main circuit yes and on each auxiliary switch board to the cables of auxiliary circuits _____ and at each position where a cable is branched or reduced in size _____ and to each lamp circuit yes

If vessel is wired on the double wire system are fuses fitted to both flow and return wires or cables of all circuits including lamp circuits _____

Are the fuses of non-oxidizable metal yes and constructed to fuse at an excess of 100 per cent over the normal current

Are all fuses fitted in easily accessible positions yes Are the fuses of standard dimensions yes If wire fuses are used are permanent instructions fitted on or near each switch board giving particulars of proper size of fuse for each circuit yes

Are all switches and fuses constructed of incombustible materials and fitted on incombustible bases yes

Total number of lights provided for 119 arranged in the following groups:—

A	Boop	11	lights each of	16	candle power requiring a total current of	4.04	Amperes
B	Captain's Cabin	28	lights each of	16	candle power requiring a total current of	14.9	Amperes
C	Engine Room	24	lights each of	16	candle power requiring a total current of	15.3	Amperes
D	Accommodation	21	lights each of	16	candle power requiring a total current of	13.4	Amperes
E			lights each of		candle power requiring a total current of		Amperes
	2 Mast head light with	2	lamps each of	32	candle power requiring a total current of	2.5	Amperes
	2 Side light with	2	lamps each of	32	candle power requiring a total current of	2.5	Amperes
	1 Convoy Lamp with			32		1.28	
	5-5 Light Cargo lights of			16	candle power, whether incandescent or arc lights	Incandescent	

If arc lights, what protection is provided against fire, sparks, &c. _____

Where are the switches controlling the masthead and side lights placed in Chart Room

DESCRIPTION OF CABLES.

Main cable carrying 100 Amperes, comprised of 19 wires, each 14 S.W.G. diameter, .094 square inches total sectional area
 Branch cables carrying 14.9 Amperes, comprised of 4 wires, each 18 S.W.G. diameter, .0125 square inches total sectional area
 Branch cables carrying _____ Amperes, comprised of _____ wires, each _____ S.W.G. diameter, _____ square inches total sectional area
 Leads to lamps carrying 3.2 Amperes, comprised of 3 wires, each 20 S.W.G. diameter, .003 square inches total sectional area
 Cargo light cables carrying 3.2 Amperes, comprised of 3 wires, each 20 S.W.G. diameter, .003 square inches total sectional area

DESCRIPTION OF INSULATION, PROTECTION, ETC.

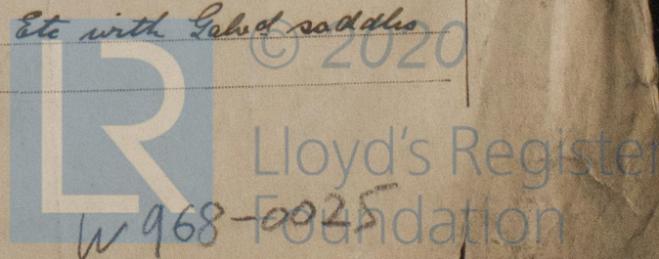
Twine 7. DR Single Wire Armoured + Braided Cable also single Lead Coured Cable

Joints in cables, how made, insulated, and protected _____

Are all the joints of cables thoroughly soldered, and the flux used not containing acids or other corrosive substances _____ Are all joints in accessible positions, none being made in bunkers, cargo spaces, or spaces which may at any time be used for carrying cargo, stores, or baggage _____

Are there any joints in or branches from the cable leading from dynamo to main switch board no

How are the cables led through the ship, and how protected securely fixed to beams etc with lead saddles



DESCRIPTION OF INSULATION, PROTECTION, ETC.—continued.

Are they in places always accessible Yes
 What special protection has been provided for the cables in open alleyways or where exposed to weather or moisture Lead Covered
 What special protection has been provided for the cables near galleys or oil lamps or other sources of heat Arm'd & Braided Cables
 What special protection has been provided for the cables near boiler casings Arm'd & Braided Cables in Gas Barrel Tubing
 What special protection has been provided for the cables in engine room Arm'd & Braided Cables
 How are cables carried through beams Bushed Stales through bulkheads, &c. Bulkhead Glan do
 How are cables carried through decks Deck Lubes
 Are any cables run through coal bunkers no or cargo spaces no or spaces which may be used for carrying cargo, stores, or baggage yes
 If so, how are they protected Armoured & Braided
 Are any lamps fitted in coal bunkers or spaces which may at times be used for cargo, coals, or baggage no
 If so, how are the lamp fittings and cable terminals specially protected _____
 Where are the main switches and fuses for these lights fitted _____
 If in the spaces, how are they specially protected _____
 Are any switches or fuses fitted in bunkers no
 Cargo light cables, whether portable or permanently fixed Portable How fixed _____
 In vessels fitted on the single wire system, how is the dynamo terminal fixed to the hull of vessel _____
 How are the returns from the lamps connected to the hull _____
 Are all the joints with the hull in accessible positions _____
 Is the installation supplied with a voltmeter yes, and with an amperemeter yes, fixed on Main Srv Board

VESSELS BUILT FOR CARRYING PETROLEUM.

In vessels built for carrying petroleum, are all switches and fuses fitted in positions not liable to the accumulation of petroleum vapour or gas _____
 Are any switches, fuses, or joints of cables fitted in the pump room or companion _____
 How are the lamps specially protected in places liable to the accumulation of vapour or gas _____

The copper used is guaranteed to have a conductivity of not less than that of the Engineering Standards Committee's standard, and the wires are protected by tinning from the sulphur compounds present in the insulating material.

Insulation of cables is guaranteed to have a resistance of not less than 600 megohms per statute mile at 60° Fahrenheit after 24 hours' immersion in water, the test being made after one minute's electrification at not less than 500 volts and while the cable is still immersed.

The foregoing statements are a correct description of the Electric Light installation fitted by us on this vessel and we declare that it is at this date in good order and safe working condition.

Ernie Alley Ross & Co. Ltd.

Electrical Engineers

Date 6th April 1918.

COMPASSES.

for John R. Ernie Alley Ross
 Distance between dynamo or electric motors and standard compass _____
 Distance between dynamo or electric motors and steering compass _____
 The nearest cables to the compasses are as follows:—
 A cable carrying 14.9 Amperes 14 feet from standard compass 13 feet from steering compass
 A cable carrying 4 Amperes 12 feet from standard compass 11 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 Yes
 The maximum deviation due to electric currents, etc., 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.

J. R. Russell & Co.

Builder's Signature.

Date 15th April 1918.

GENERAL REMARKS.

The fitting of the wires in this vessel are as stated in their report and appear to be in accordance with the Commission's requirements.

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

J. W. D. 24/4/18

Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

GLASGOW. 23 APR 1918

Elec. Light



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THE SURVEYORS ARE REQUESTED NOT TO WRITE ACROSS THIS MARGIN.

Im. 11. 1. Transfer.

22/4/18