

REPORT ON ELECTRIC LIGHTING INSTALLATION. No. 38588.

Port of Glasgow Date of First Survey 24th Feb. 1919 Date of Last Survey March 11th 1919 No. of Visits 2
 No. in on the ~~Iron~~ Steel SS. Seaside Port belonging to St. Joes
 Reg. Book Built at Partick By whom Messrs D. & W. Henderson When built 1919
 Owners Owners' Address
 Yard No. 516 Electric Light Installation fitted by Messrs Seford Green & McKay When fitted 1919

DESCRIPTION OF DYNAMO, ENGINE, ETC.

Enclosed forced lubrication engine direct coupled to
Compound dynamo
 Capacity of Dynamo 100 Amperes at 100 Volts, whether continuous or alternating current Cont.
 Where is Dynamo fixed Stbd Engine Room Whether single or double wire system is used double
 Position of Main Switch Board Stbd Engine Room having switches to groups 6 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 yes and at each position where a cable is branched or reduced in size yes 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 yes
 Are the fuses of non-oxidizable metal yes and constructed to fuse at an excess of 50 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 148 arranged in the following groups:—

A	<u>28</u>	lights each of	<u>16</u>	candle power requiring a total current of	<u>14</u>	Amperes
B	<u>47</u>	lights each of	<u>16</u>	candle power requiring a total current of	<u>24</u>	Amperes
C	<u>8</u>	lights each of	<u>various</u>	candle power requiring a total current of	<u>6</u>	Amperes
D	<u>34</u>	lights each of	<u>16</u>	candle power requiring a total current of	<u>17</u>	Amperes
E	<u>31</u>	lights each of	<u>16</u>	candle power requiring a total current of	<u>15.5</u>	Amperes
	<u>1</u>	Mast head light with	<u>1</u> lamps each of	<u>32</u>	candle power requiring a total current of	<u>1</u> Amperes
	<u>2</u>	Side light with	<u>2</u> lamps each of	<u>32</u>	candle power requiring a total current of	<u>2</u> Amperes
	<u>5</u>	Cargo lights of	<u>96</u> each	candle power, whether incandescent or arc lights	<u>Incand</u>	

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

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

DESCRIPTION OF CABLES.

Main cable carrying 100 Amperes, comprised of 37 wires, each 16 S.W.G. diameter, .117 square inches total sectional area
 Branch cables carrying 24 Amperes, comprised of 7 wires, each 16 S.W.G. diameter, .022 square inches total sectional area
 Branch cables carrying 14 Amperes, comprised of 7 wires, each 18 S.W.G. diameter, .012 square inches total sectional area
 Leads to lamps carrying 3 Amperes, comprised of 1 wires, each 17 S.W.G. diameter, .002 square inches total sectional area
 Cargo light cables carrying 6 Amperes, comprised of 1 wires, each 14 S.W.G. diameter, .005 square inches total sectional area

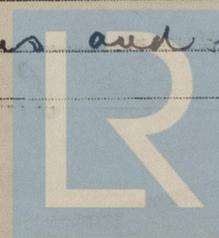
DESCRIPTION OF INSULATION, PROTECTION, ETC.

Armoured and braided cable used through holds
machinery spaces & crew quarters lead cased cable
used in cabins saloon and for Bridge
 Joints in cables, how made, insulated, and protected none

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 Led through beams and clipped
to be protected by sheet iron.



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 casing

What special protection has been provided for the cables near galleys or oil lamps or other sources of heat armour & braiding

What special protection has been provided for the cables near boiler casings armour & braiding

What special protection has been provided for the cables in engine room armour & braiding

How are cables carried through beams through chandeliers through bulkheads, &c. W.T. Glands

How are cables carried through decks W.T. lead pipes

Are any cables run through coal bunkers no or cargo spaces yes or spaces which may be used for carrying cargo, stores, or baggage no

If so, how are they protected armour & braided cable clipped to bulk

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 no

Where are the main switches and fuses for these lights fitted no

If in the spaces, how are they specially protected no

Are any switches or fuses fitted in bunkers no

Cargo light cables, whether portable or permanently fixed Portable How fixed Portable

In vessels fitted on the single wire system, how is the dynamo terminal fixed to the hull of vessel no

How are the returns from the lamps connected to the hull no

Are all the joints with the hull in accessible positions no

Is the installation supplied with a voltmeter yes, and with an amperemeter yes, fixed Switchboard

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 no

Are any switches, fuses, or joints of cables fitted in the pump room or companion no

How are the lamps specially protected in places liable to the accumulation of vapour or gas no

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.

TELFORD, GRIFFIN & MACKAY, LTD.

Electrical Engineers

Date 25-3-19

COMPASSES.

Distance between dynamo or electric motors and standard compass 30 feet Wireless Rotary

Distance between dynamo or electric motors and steering compass 30 feet Wireless Rotary

The nearest cables to the compasses are as follows:—

A cable carrying	<u>6</u> Amperes	<u>16</u> feet from standard compass	<u>8</u> feet from steering compass
A cable carrying	<u>2</u> Amperes	<u>3</u> feet from standard compass	<u>3</u> 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.

DAVID & WILLIAM HENDERSON & CO., LIMITED

Builder's Signature. Date

W. H. H. Director

GENERAL REMARKS.

This installation has been fitted on board under special survey. Tested under full working load for a period six hours & found satisfactory.

It is submitted that

this vessel is eligible for

THE RECORD. Elec. Light.

W.D. 21/4/19.

J. Stanley Rankin.

Surveyor to Lloyd's Register of Shipping.

15-116-Transfer.

Committee's Minute

GLASGOW 1 APR 1919

Elec. Light.

J.S.



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