

REPORT ON ELECTRIC LIGHTING INSTALLATION. No. 7254

Liverpool Date of First Survey Sept 16th Date of Last Survey Sept 28th No. of Visits 3
 on the Iron or Steel S.S. "Ravens Point" Port belonging to Liverpool
 Built at Garston By whom Messrs H. G. Grayson Ltd When built 1918
 Owners Sir John Esplan Owners' Address _____
 Yard No. _____ Electric Light Installation fitted by Messrs Campbell & Isherwood Ltd When fitted 1918

DESCRIPTION OF DYNAMO, ENGINE, ETC.

Open, Vertical single cylinder type Engine direct to Compound wound, multipolar type dynamo, both mounted on cast iron baseplate

Capacity of Dynamo 50 Amperes at 100 Volts, whether continuous or alternating current continuous

Where is Dynamo fixed Under Stores in Engine Room Single wire system

Position of Main Switch Board Near dynamo having switches to groups Six of lights, &c., as below

Positions of auxiliary switch boards and numbers of switches on each 1-6 way in Engine room, 1-10 way with switches in Chart Room, remainder near respective groups of lights

If cut outs 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 cut outs fitted to both flow and return wires or cables of all circuits including lamp circuits —

Are the cut outs of non-oxidizable metal Yes and constructed to fuse at an excess of 50 per cent over the normal current

Are all cut outs 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 cut-outs constructed of incombustible materials and fitted on incombustible bases Yes

Total number of lights provided for Equivalent 125-16 CP arranged in the following groups:—

A	Saloon	11 lights each of	16	candle power requiring a total current of	4	Amperes
B	Bridge	18 lights each of	16	candle power requiring a total current of	8	Amperes
C	Forecastle Engineers	24 lights each of	16	candle power requiring a total current of	10	Amperes
	Engine room	21 lights each of	16	candle power requiring a total current of	8	Amperes
	Cargo	24 lights each of	16	candle power requiring a total current of	12	Amperes
		of 12-150 watt lanterns	300		3	
2	Mast head light with	1 lamps each of	16	candle power requiring a total current of	1	Amperes
2	Side light with	1 lamps each of	16	candle power requiring a total current of	1	Amperes

6 light blusters & Cargo lights of 96 candle power, whether incandescent or arc lights incandescent

2 Cargo Lanterns 300
If arc lights, what protection is provided against fire, sparks, &c. None

Where are the switches controlling the masthead and side lights placed in Chart Room also on Navigating Bridge

DESCRIPTION OF CABLES.

Main cable carrying 50 Amperes, comprised of 19 wires, each 14 L.S.G. diameter, .093 square inches total sectional area

Branch cables carrying 10 Amperes, comprised of 7 wires, each 18 L.S.G. diameter, .0125 square inches total sectional area

Branch cables carrying 20 Amperes, comprised of 7 wires, each 18 L.S.G. diameter, .0125 square inches total sectional area

Leads to lamps carrying 1 Amperes, comprised of 3 wires, each 20 L.S.G. diameter, .003 square inches total sectional area

Cargo light cables carrying 12 Amperes, comprised of 172 wires, each 38 L.S.G. diameter, .005 square inches total sectional area

DESCRIPTION OF INSULATION, PROTECTION, ETC.

V. I. R. taped braided & compounded, through Cargo Spaces, Bunkers & Engine room & on deck carried in heavy gauge, galvanised screwed pipe

Joints in cables, how made, insulated, and protected None

Are all the joints of cables thoroughly soldered, resin or oxy having been used as a flux No joints 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 in heavy gauge, galvanised, screwed pipe

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 cables run gauge, galvanised, screwed pipe

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

What special protection has been provided for the cables near boiler casings ditto

What special protection has been provided for the cables in engine room ditto

How are cables carried through beams Iron clips ~~through bulkheads, &c.~~

How are cables carried through decks in deck pipes watertight

Are any cables run through coal bunkers Yes or cargo spaces Yes or spaces which may be used for carrying cargo, stores, or baggage No.

If so, how are they protected by heavy gauge galvanised screwed pipe

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 cut outs for these lights fitted —

If in the spaces, how are they specially protected —

Are any switches or cut outs fitted in bunkers No

Cargo light cables, whether portable or permanently fixed Portable How fixed To Cargo Connection Boxes on deck

In vessels fitted on the single wire system, how is the dynamo terminal fixed to the hull of vessel to carcass of dynamo

How are the returns from the lamps connected to the hull to brass Tapp pins tapped into beams

Are all the joints with the hull in accessible positions Yes

VESSELS BUILT FOR CARRYING PETROLEUM.

In vessels built for carrying petroleum, are all switches and cut-outs fitted in positions not liable to the accumulation of petroleum vapour or gas

Are any switches, cut outs, 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 installation is Yes supplied with a voltmeter and Yes an amperemeter, fixed on Main Switchboard

The copper used is guaranteed to have a conductivity of 100 per cent. that of pure copper.

Insulation of cables is guaranteed to have a resistance of not less than 600 megohms statute mile after 24 hours' immersion in seawater.

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.

Campbell + Isherwood Ltd Electrical Engineers Date Oct 8/18.

COMPASSES.

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	$\frac{1}{2}$	Amperes	<u>on</u>	feet from standard compass	<u>5</u>	feet from steering compass
A cable carrying	$\frac{1}{2}$	Amperes	<u>5</u>	feet from standard compass	<u>on</u>	feet from steering compass
A cable carrying	<u>3</u>	Amperes	<u>3</u>	feet from standard compass	<u>8</u>	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 — degrees on — course in the case of the standard compass and — degrees on — course in the case of the steering compass.

Builder's Signature. Date

GENERAL REMARKS.

This Elec. Light installation has been satisfactorily fitted & vessel is, in my opinion eligible for record in Register Book.

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

ELEC. LIGHT 25-18-18

J. D. Milton

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

Committee's Minute

Electric Light

J. D. Milton



© 2020

Lloyd's Register Foundation

NOT TO WRITE ACROSS THIS MARGIN.

THE SURVEYORS

REPORT FORM No. 13