

REPORT ON ELECTRIC LIGHTING INSTALLATION. No. 28375

Port of Hull Date of First Survey 15.2.15 Date of Last Survey 24.2.15 No. of Visits 4
 No. in 65 on the Iron Steel Sc:K: Conan Doyle Port belonging to Hull
 Reg. Book 65 Built at Selby By whom Cochrane & Sons Ltd When built 1915
 SUPP. Owners The Newington Steam Trawling Co. Owners' Address St Andrews Dock Hull
 Yard No. 624 Electric Light Installation fitted by THE HUMBER ELECTRICAL ENGINEERING Co. When fitted 1915.2

DESCRIPTION OF DYNAMO, ENGINE, ETC.

Engine by Roberts, 4 1/2 x 4 Open Type. Direct coupled to 4 200 Dynamos
 by J. H. Holmes (Newcastle)
 Capacity of Dynamo 45 Amperes at 65 Volts, whether continuous or alternating current Continuous
 Where is Dynamo fixed Starboard Engine Room Whether single or double wire system is used Double
 Position of Main Switch Board Starboard 2 having switches to groups Three of lights, &c., as below
 Positions of auxiliary switch boards and numbers of switches on each One 4 way Forecastle. One 3 way Engine Room
One 10 way Wheel House. One 5 way Cabin entrance aft

If fuses are fitted on main switch board to the cables of main circuit No 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 25% 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 52 - 16 CP. arranged in the following groups :-

A	4	lights each of	16	candle power requiring a total current of	3.39	Amperes
B	20	lights each of	16	candle power requiring a total current of	19	Amperes
C	12	lights each of	16	candle power requiring a total current of	11	Amperes
D	12	lights each of	16	candle power requiring a total current of	11	Amperes
E	4	lights each of	16	candle power requiring a total current of	3	Amperes
3	Mast head light with 1 lamps each of	32	candle power requiring a total current of	1.9	Amperes	
2	Side light with 1 lamps each of	32	candle power requiring a total current of	1.9	Amperes	
1	Cargo lights of	5 - 16 CP	candle power, whether incandescent			lights

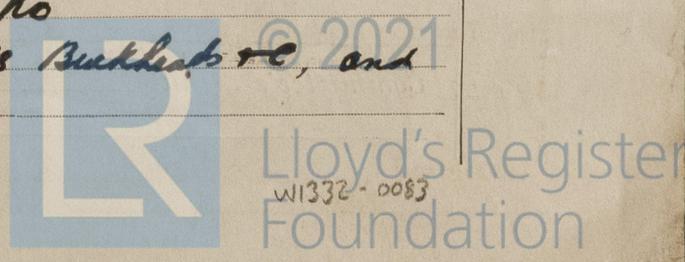
If arc lights, what protection is provided against fire, sparks, &c. No Arcs
 Where are the switches controlling the masthead and side lights placed Wheel house

DESCRIPTION OF CABLES.

Main cable carrying	45	Amperes, comprised of	7	wires, each	16	S.W.G. diameter,	.022	square inches total sectional area
Branch cables carrying	20	Amperes, comprised of	3	wires, each	18	S.W.G. diameter,	.0053	square inches total sectional area
Branch cables carrying	4	Amperes, comprised of	1	wires, each	18	S.W.G. diameter,	.0018	square inches total sectional area
Leads to lamps carrying	1	Amperes, comprised of	1	wires, each	18	S.W.G. diameter,	.0018	square inches total sectional area
Cargo light cables carrying	5	Amperes, comprised of	120	wires, each	40	S.W.G. diameter,	.0024	square inches total sectional area

DESCRIPTION OF INSULATION, PROTECTION, ETC.

Herley Cable 600 52 grade. Lead covered, and lead covered
Armoured
 Joints in cables, how made, insulated, and protected No Joints
 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 Clipped up direct to Ples Bulkheads &c, and
passed through beams.



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 & Armoured with galvanized iron wires

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

What special protection has been provided for the cables near boiler casings Lead & Armoured

What special protection has been provided for the cables in engine room Lead & Armoured

How are cables carried through beams Pushed with lead for lead covers through bulkheads, &c. Brass W&G Glands

How are cables carried through decks Deck Pipes

Are any cables run through coal bunkers Yes or cargo spaces Yes or spaces which may be used for carrying cargo, stores, or baggage Yes

If so, how are they protected Lead covers & Armoured

Are any lamps fitted in coal bunkers or spaces which may at times be used for cargo, coals, or baggage No lights in Tied Room

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 Main 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 _____

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 500 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.

THE LLOYD'S REGISTER ELECTRICAL ENGINEERING Co.

Electrical Engineers

Date _____

COMPASSES.

Distance between dynamo or ~~electric motors~~ and standard compass _____

40 feet

Distance between dynamo or ~~electric motors~~ and steering compass _____

36 do

The nearest cables to the compasses are as follows:—

A cable carrying	<u>3</u>	Amperes	<u>to</u>	feet from standard compass	feet from steering compass
A cable carrying	<u>3</u>	Amperes		feet from standard compass	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 _____

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.

FOR COCHRANE & SONS LTD.

J. H. Cochrane.

Builder's Signature.

Date _____

GENERAL REMARKS.

This installation of electric light has been well fitted the materials and workmanship are good. it has been tried under full working conditions & found satisfactory

It is submitted that this vessel is eligible for

THE RECORD. Elec. light.

J.W.D.

29. 3. 15.

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

W.H. Roberts

Committee's Minute _____

Im.11.13.—Transfer.

THE SURVEYORS ARE REQUESTED NOT TO WRITE ACROSS THIS MARGIN.



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