

MON 24 JAN. 1916

## REPORT ON ELECTRIC LIGHTING INSTALLATION.

No. 29075

Port of Hull Date of First Survey 2.12.15 Date of Last Survey 17.12.15 No. of Visits 5  
 No. in on the Iron or Steel steam trawler Jacinta Port belonging to Fleetwood  
 Reg. Book Lupt-18 Built at Leby By whom Cochrane & Sons Ltd When built 1915-12  
 Owners J. Mann & Son Ltd Owners' Address Fleetwood  
 Yard No. 634 Electric Light Installation fitted by The Humber Electrical Coy Ltd When fitted 1915-12

## DESCRIPTION OF DYNAMO, ENGINE, ETC.

Enclosed Engine 5' x 3" by Sissons direct coupled to Dynamo by  
Phoenix Dynamo Co Ltd all on one bed plate

Capacity of Dynamo 50 Amperes at 65 Volts, whether continuous or alternating current Continuous

Where is Dynamo fixed Starboard Eng Room Whether single or double wire system is used Double

Position of Main Switch Board Starboard Eng Room having switches to groups Three of lights, &c., as below

Positions of auxiliary switch boards and numbers of switches on each 1- 3 way Turret 1- 10 way Wheelhouse

1- 5 way Cabins Aft 1- 3 way Engine Room

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 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 44 arranged in the following groups:—

A	<u>9</u>	lights each of	<u>16</u>	candle power requiring a total current of	<u>8.2</u>	Amperes
B	<u>6</u>	lights each of	<u>16</u>	candle power requiring a total current of	<u>5.3</u>	Amperes
C	<u>9</u>	lights each of	<u>16</u>	candle power requiring a total current of	<u>8.2</u>	Amperes
D	<u>20</u>	lights each of	<u>16</u>	candle power requiring a total current of	<u>18.3</u>	Amperes
E		lights each of		candle power requiring a total current of		Amperes
	<u>3</u>	Mast head light with <u>1</u> lamps each of	<u>32</u>	candle power requiring a total current of	<u>5.6</u>	Amperes
	<u>2</u>	Side light with <u>1</u> lamps each of	<u>32</u>	candle power requiring a total current of	<u>3.9</u>	Amperes
	<u>1</u>	Cargo lights of <u>5. 16 cp</u>		candle power, whether incandescent or arc lights	<u>4.8</u>	

If arc lights, what protection is provided against fire, sparks, &c. No Arcs

Where are the switches controlling the masthead and side lights placed Wheelhouse

## DESCRIPTION OF CABLES.

Main cable carrying 48 Amperes, comprised of 19 wires, each 18 S.W.G. diameter, .034 square inches total sectional area  
 Branch cables carrying 19 Amperes, comprised of 3 wires, each 18 S.W.G. diameter, .0053 square inches total sectional area  
 Branch cables carrying 8.5 Amperes, comprised of 3 wires, each 20 S.W.G. diameter, .003 square inches total sectional area  
 Leads to lamps carrying 2 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 130 wires, each 40 S.W.G. diameter, .0024 square inches total sectional area

## DESCRIPTION OF INSULATION, PROTECTION, ETC.

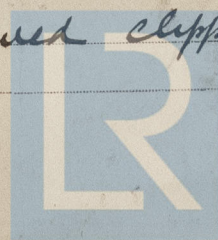
Single Cable 600 Ω grade V I R Lead Covered  
and Lead Covered Armoured

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 Lead Covered Armoured clipped up  
to wood & steel Decks



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DESCRIPTION OF INSULATION, PROTECTION, ETC.—continued.

Are they in places always accessible *no*

What special protection has been provided for the cables in open alleyways or where exposed to weather or moisture

*Lead Armoured*

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

*Bushed Holes for lead cava through bulkheads, &c.*

*Bran W.T. Gland*

How are cables carried through decks

*Deck Pipe*

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 Armoured*

Are any lamps fitted in coal bunkers or spaces which may at times be used for cargo, coals, or baggage

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 S. 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.

*THE NUMBER ELECTRICAL ENGINEERS*

Electrical Engineers

Date

COMPASSES.

PROPRIETOR

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	Amperes	feet from standard compass	feet from steering compass
<i>.2</i>	<i>to</i>	<i>feet from standard compass</i>	<i>feet from steering compass</i>
<i>.2</i>	<i>to</i>	<i>feet from standard compass</i>	<i>feet from steering compass</i>
<i></i>	<i></i>	<i>feet from standard compass</i>	<i>feet from steering compass</i>

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.

FOR COCHRANE & SONS LTD.

*J. M. Cochrane*

Builder's Signature.

Date *14/1/1916.*

GENERAL REMARKS.

*This vessel has been fitted with an electric light installation as above, the workmanship is good on completion it was tested under full working conditions & found satisfactory*

It is submitted that

this vessel is fitted with

THE RECORD Elec. light.

*Frank L. Stanger*

*J. M. Cochrane* 24/1/16.

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

Committee's Minute

THE SURVEYORS ARE REQUESTED NOT TO WRITE ACROSS THIS MARGIN.

ENCLOSURE  
No 845



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