

REPORT ON ELECTRIC LIGHTING INSTALLATION. No. 8506

Port of *Leith* Date of First Survey *25th March* Date of Last Survey *10th June* No. of Visits *4*
 No. in Reg. Book *172* on the *Iron or Steel S. S. Marguerite Depeaux* Port belonging to *Rouen*
 Built at *Inverkeithing* By whom *Cumming & Ellis* When built *1896-97*
 Owners *Delia Depeaux & Co.* Owners Address *Rouen*
 Yard No. *24* Electric Light Installation fitted by *Messrs. J. H. Holmes & Co.* When fitted *1897*

DESCRIPTION OF DYNAMO, ENGINE, ETC.

1 *5½ x 5* Open auto type *Engine* coupled direct to *No 11*
Dynamo Reos. *380 per min* *6000 per 1/2" Steam press.*
 Capacity of Dynamo *60* Amperes at *65* Volts, ~~whether continuous or alternating~~ current
 Where is Dynamo fixed *Engine room starting platform*
 Position of Main Switch Board *Near Dynamo* having switches to groups *A, B, C, & D* of lights, &c., as below
 Positions of auxiliary switch boards and numbers of switches on each *1 Auxly sw board fixed in paubg midships, and 1 do do in Engine room with 4 switches each.*
 If cut outs are fitted on main switch board to the cables of main circuit *Yes* and on each auxiliary switch boards 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 *Yes*
 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 *36* arranged in the following groups:—
 A *Capt* 7 lights each of *16* candle power requiring a total current of *6.45* Amperes
 B *Engine* 10 lights each of *16* candle power requiring a total current of *9.8* Amperes
 C *Midships* 15 lights each of *16* candle power requiring a total current of *13.8* Amperes
 D *Forward* 4 lights each of *16* candle power requiring a total current of *3.6* Amperes
 E lights each of candle power requiring a total current of Amperes
 Mast head light with lamps each of candle power requiring a total current of Amperes
 Side light with lamps each of candle power requiring a total current of Amperes
 2 Cargo lights of candle power, ~~whether incandescent or~~ are lights *to take*

If arc lights, what protection is provided against fire, sparks, &c. *10 Amperes each, each provided with weatherproof lanterns and entirely enclosed.*

Where are the switches controlling the masthead and side lights placed

DESCRIPTION OF CABLES.

Main cable carrying Amperes, comprised of *1000* wires, each L.S.G. diameter, square inches total sectional area
 Branch cables carrying Amperes, comprised of *1000* wires, each L.S.G. diameter, square inches total sectional area
 Branch cables carrying Amperes, comprised of *1000* wires, each L.S.G. diameter, square inches total sectional area
 Leads to lamps carrying Amperes, comprised of *1000* wires, each L.S.G. diameter, square inches total sectional area
 Cargo light cables carrying Amperes, comprised of wires, each L.S.G. diameter, square inches total sectional area

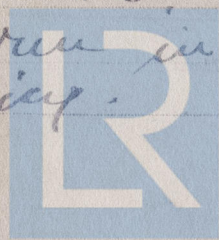
DESCRIPTION OF INSULATION, PROTECTION, ETC.

Pure rubber *Vulcanising rubber, proofed tape*
then the whole vulcanised together, braided
and compounded.
 Joints in cables, how made, insulated, and protected *Twisted joints, soldered and insulated with Okoniff black and white tape.*

Are all the joints of cables thoroughly soldered, resin only having been used as a flux *Yes* 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 *No*

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 *Holds, all run in piping, otherwise in wood casing.*



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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

sheathed wire

Iron

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

Iron sheathed wire

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

do

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

do

How are cables carried through beams

Fibre insulators

through bulkheads, &c.

W.T. Glauco's.

How are cables carried through decks

Tubes 2' 0" above deck

Are any cables run through coal bunkers

No

or cargo spaces

Yes

or spaces which may be used for carrying cargo, stores, or baggage

Yes

If so, how are they protected

Iron piping

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

Socket connections

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

Bulb wire system

How are the returns from the lamps connected to the hull

Are all the joints with the hull in accessible positions

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

supplied with a voltmeter and

not

an amperemeter, fixed

on Main Switch

The copper used is guaranteed to have a conductivity of

98

per cent. that of pure copper.

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

600

megohms per

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.

[Signature]

Electrical Engineers

Date

[Signature]

COMPASSES.

Distance between dynamo or electric motors and standard compass

80 ft

Distance between dynamo or electric motors and steering compass

30 ft

The nearest cables to the compasses are as follows:—

A cable carrying	Amperes	feet from standard compass	feet from steering compass
A cable carrying	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.

[Signature]

Builder's Signature

Date

10th June 1897

GENERAL REMARKS.

The fittings of this installation were examined while in progress and appear to be in accordance with the Committee's requirements as set forth in Notice No. 924, but the installation has not yet been at work and its entire completion is uncertain.

[Signature]

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

Committee's Minute

TUES, 13 DEC 1896

It is submitted that this installation appears to be in accordance with the Rules
Lloyd's Register Foundation

THE SURVEYORS ARE REQUESTED NOT TO WRITE ACROSS THIS MARGIN.