

REPORT ON ELECTRIC LIGHTING INSTALLATION.

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No. 61982

Port of *Newcastle-on-Tyne* Date of First Survey *12th Mar* Date of Last Survey *25th Mar* No. of Visits *6*No. in Reg. Book *49* on the *Iron* *Steel* *Dreadful* Port belonging to *Nesple & Co Ltd*Built at *North Shields* By whom *Nesple & Co Ltd* When built *1911*Owners *Canadian Western Lumber Co.* Owners' Address *THE NORTHERN ELECTRICAL ENGINEERING AND PLATING CO. LTD*Yard No. *021* Electric Light Installation fitted by *North Shields* When fitted *1912*

DESCRIPTION OF DYNAMO, ENGINE, ETC.

None fitted.

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

Where is Dynamo fired _____ Whether single or double wire system is used *double*Position of Main Switch Board _____ having switches to groups *Five main* of lights, &c., as belowPositions of auxiliary switch boards and numbers of switches on each *on each switch. Each switch prints fitted as near as possible to respective light*

If cut outs are fitted on main switch board to the cables of main circuit _____ and on each auxiliary switch board to the cables of auxiliary circuits _____ and at each position where a cable is branched or reduced in size _____ and to each lamp circuit _____

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 _____ and constructed to fuse at an excess of _____ per cent over the normal current

Are all cut outs fitted in easily accessible positions _____ Are the fuses of standard dimensions _____ 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 _____

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

Total number of lights provided for *43* arranged in the following groups:—A *11* lights each of *16* candle power requiring a total current of _____ AmperesB *26* lights each of *16* candle power requiring a total current of _____ AmperesC *14* lights each of *16* candle power requiring a total current of _____ AmperesD *6* lights each of *16* candle power requiring a total current of _____ AmperesE *12* lights each of *16* candle power requiring a total current of _____ AmperesF *1* lamp each of *32* candle power requiring a total current of _____ AmperesG *1* lamp each of *32* candle power requiring a total current of _____ AmperesH *4* Cargo lights of *16* candle power, whether incandescent or arc lights *incandescent*If arc lights, what protection is provided against fire, sparks, &c. *Cable circuit for Searchlight Projector taking 20 amperes*Where are the switches controlling the masthead and side lights placed *Chart House*

DESCRIPTION OF CABLES.

Main cable carrying _____ Amperes, comprised of _____ wires, each _____ L.S.G. diameter, _____ square inches total sectional area

Branch cables carrying _____ Amperes, comprised of _____ wires, each _____ L.S.G. diameter, _____ square inches total sectional area

Branch cables carrying _____ Amperes, comprised of _____ wires, each _____ L.S.G. diameter, _____ square inches total sectional area

Leads to lamps carrying _____ Amperes, comprised of _____ 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

Searchlight cable _____ Amperes, comprised of _____ wires, each _____ L.S.G. diameter, _____ square inches total sectional area

DESCRIPTION OF INSULATION, PROTECTION, ETC. *Pure rubber vulcanised rubber, & taped & braided.**Lead covered, & lead covered & gal. iron wire ~~armoured~~**Also screwed galvanised conduit armoured*Joints in cables, how made, insulated, and protected *No joints*

Are all the joints of cables thoroughly soldered, resin only having been used as a flux _____ 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 _____

How are the cables led through the ship, and how protected *Lead covered & armoured, secured with gal. iron saddles; and Gal. screwed conduits on heavy iron saddles*

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 *Galvanised screwed conduit, and lead covered & armoured*

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

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 *insulating ferrules* through bulkheads, &c. *in pipes with*

How are cables carried through decks *Lead pipes with W.T. flanges* watertight flanges

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

If so, how are they protected *Galvanised screwed conduit*

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 *permanently* How fixed *Lead cord in lead Gal Conduit.*

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 _____

The installation is _____ supplied with a voltmeter and _____ an amperemeter, fixed _____

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 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 *1600* megohms per 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.

AND PLATING CO., LTD.

Electrical Engineers

Date *April 25th 1912.*

COMPASSES.

Thomas Harrison } *58 feet*

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>5 cps for compass</i>			
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.

HEPPLE & CO. LTD.

W. J. Hepple

Builder's Signature.

Date *April 25th 1912.*

GENERAL REMARKS.

Only the wiring has been carried out on this district. The Dynamo, the switch board and the lamps & their fittings are to be fitted on board on vessels arrival in America.

George H. Hurd

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

Committee's Minute

THE SURVEYORS ARE REQUESTED NOT TO WRITE ACROSS THIS MARGIN.



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