

## LIGHTING INSTALLATION

Received at London Office

JULY 14 MAR 1905

No. in Survey held at

Glasgow

Date of Last Survey

6 Mar. 1905

No. of Visits

6

Port belonging to

Southampton

By whom

The Fairfield S. &amp; E. Co. Ltd.

When built

1905

Owners' Address

Shipley House, Dordrecht

Fitted by

Fairfield Shipbuilding &amp; Engineering Co. Ltd.

When fitted

1905

ETC.

Lamp type, direct coupled to 2 Compound Wound

125 Amperes at

65

Volts, whether continuous or alternating current

continuous

on end lower platform of Engine Room

Room of Engine

switches to groups A. B. C. D. E. F. of lights, &amp;c., as below

on each

none fitted

of main circuit

Yes

and on each auxiliary switch board to the cables of auxiliary

a cable is branched or reduced in size

Yes

and to each lamp circuit

Yes

cables fitted to both flow and return wires or cables of all circuits including lamp circuits

Yes

Yes

and constructed to fuse at an excess of

50

per cent over the normal current

positions

Yes

Are the fuses of standard dimensions

Yes

If wire fuses are used

on or near each switch board giving particulars of proper size of fuse for each circuit

instructions supplied

of incombustible materials and fitted on incombustible bases

Yes

511

arranged in the following groups:—

lights each of	16	candle power requiring a total current of	27.52	Amperes
lights each of	16	candle power requiring a total current of	59.34	Amperes
lights each of	16	candle power requiring a total current of	30.96	Amperes
lights each of	16	candle power requiring a total current of	10.32	Amperes
lights each of	32	candle power requiring a total current of	107.5	Amperes
each lamps each of	32 Double filament	candle power requiring a total current of	3.44	Amperes
each lamps each of	32 Double filament	candle power requiring a total current of	3.44	Amperes
lights of		candle power, whether incandescent or arc lights		
is provided against fire, sparks, &c.		none		

switches controlling the masthead and side lights placed

Chart House

## OF CABLES.

carrying	197.52 Amperes, comprised of	19 wires, each	12 L.S.G. diameter, .1595	square inches total sectional area
cables carrying	41 Amperes, comprised of	4 wires, each	14 L.S.G. diameter, .034	square inches total sectional area
other cables carrying	15 Amperes, comprised of	4 wires, each	18 L.S.G. diameter, .012	square inches total sectional area
Leads to lamps carrying	.86 Amperes, comprised of	3 wires, each	20 L.S.G. diameter, .003	square inches total sectional area
Cargo light cables carrying	Amperes, comprised of	wires, each	L.S.G. diameter,	square inches total sectional area

## OF INSULATION, PROTECTION, ETC.

, Braided, and compounded

made, insulated, and protected Rubber taped and finished off with Blackley tape

are thoroughly soldered, resin only having been used as a flux

Yes

Are all joints in accessible positions, none being

1002

no spaces, or spaces which may at any time be used for carrying cargo, stores, or baggage

none

or branches from the cable leading from dynamo to main switch board

No

through the ship, and how protected

Leak casing &amp; cover



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W316-0261



Port of *Yokohama* continued.

No. in Survey held at

at p. electric.

has been provided for the cables in open alleyways or where exposed

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

What special protection has been provided for the cables near boiler casings *Assured*What special protection has been provided for the cables in engine room *Seah Casings*How are cables carried through beams *Insulating Fibre Tubes* *Through bulk.*How are cables carried through decks *Galvanized-iron Deck Tubes*Are any cables run through coal bunkers *No* or cargo spaces *No* or spaces which may be used for carry.

If so, how are they protected

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

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

## 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

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 an amperemeter,

The copper used is guaranteed to have a conductivity of *97* per cent. thatInsulation of cables is guaranteed to have a resistance of not less than *1,000* statute mile after 24 hrs' immersion in seawater.

The foregoing statements are correct description of the Electric Light installation fitted by us on that it is at this date in good order and safe working condition.

THE FAIRFIELD SHIPBUILDING AND ENGINEERING CO., LIMITED.

Electrical Engineers

Date

## COMPASSES.

Distance between dynamo or electric motors and standard compass *65 1/2*Distance between dynamo or electric motors and steering compass *56 1/2*

The nearest cables to the compasses are as follows:—

A cable carrying *43* Amperes *fitted on base* feet from standard compass *fitted on base* feet from st.

A cable carrying Amperes feet from standard compass feet from steering

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

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* coursestandard compass and *Nil* degrees on *any* course in the case of the steering compass.

THE FAIRFIELD SHIPBUILDING AND ENGINEERING CO., LIMITED.

Builder's Signature. Date

## GENERAL REMARKS.

*1 Battery of 35 cells, Capacity 455 Ampere hours**The dynamos & lights worked satisfactorily on trial.**Jan**Arthur L. Jones*

Surveyor to Lloyd's Register of British and

Committee's Minute

Glasgow 22 MAR 1905

Received "Electric Light"



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