

## REPORT ON ELECTRIC LIGHTING INSTALLATION.

No. 21805

Port of

Date of First Survey

Date of Last Survey

No. of Visits

No. in  
Reg. Bookon the ~~Iron or Steel~~

Built at

By whom

Port belonging to

Owners

Owners' Address

When built

Yard No.

Electric Light Installation fitted by

When fitted

## DESCRIPTION OF DYNAMO, ENGINE, ETC.

Direct coupled Dynamo &amp; Engine

Capacity of Dynamo

138

Amperes at

65

Volts, whether continuous or alternating current

Where is Dynamo fixed

Engine Room

Position of Main Switch Board

Engine Room

having switches to groups

Six

of lights, &amp;c., as below

Posit'

auxiliary switch boards and numbers of switches each

None.

If cut outs 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

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

fifty

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

213

arranged in the following groups:—

A	Engine Room	lights each of	16	candle power requiring a total current of	21	Amperes
B	Officers' Quarters	lights each of	8 + 16	candle power requiring a total current of	15	Amperes
C	First Cabin	lights each of	8 + 16	candle power requiring a total current of	24	Amperes
D	Public Room	lights each of	8 + 16	candle power requiring a total current of	22	Amperes
E	Owner's Quarters	lights each of	8 + 16	candle power requiring a total current of	20	Amperes
2	Mast head light with	2 lamps each of	32	candle power requiring a total current of	4	Amperes
2	Side light with	2 lamps each of	32	candle power requiring a total current of	4	Amperes
	Cargo lights of			candle power, whether incandescent or arc lights		

If are lights, what protection is provided against fire, sparks, &amp;c.

Where are the switches controlling the masthead and side lights placed

Chart Room

## DESCRIPTION OF CABLES.

Main cable carrying	110	Amperes, comprised of	37	wires, each	16	L.S.G. diameter,	.1176	square inches total sectional area
Branch cables carrying	22	Amperes, comprised of	7	wires, each	16	L.S.G. diameter,	.02227	square inches total sectional area
Branch cables carrying	34	Amperes, comprised of	7	wires, each	14	L.S.G. diameter,	.034	square inches total sectional area
Leads to lamps carrying	3	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

## DESCRIPTION OF INSULATION, PROTECTION, ETC.

Wires insulated with pure vulcanised India rubber  
taped, braided & compounded.

Joints in cables, how made, insulated, and protected

very few, &amp; where made insulated with

pure rubber &amp; waterproof 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

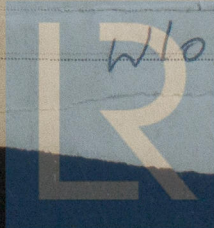
Yes

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

by





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

Iron pipe

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

Teak Wood casing

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

Teak Wood casing

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

Teak wood casing

How are cables carried through beams

Teak wood plugs

through bulkheads, &c. Watertight flanges

How are cables carried through decks

deck tubes

Are any cables run through coal bunkers or cargo spaces

Yes

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

No.

If so, how are they protected

Iron pipe

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

Cargo light cables, whether portable or permanently fixed

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

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

Claude Hamilton Ltd.

Works.

Electrical Engineers

Date 16/6/04.

COMPASSES.

Distance between dynamo or electric motors and standard compass

60 ft.

Distance between dynamo or electric motors and steering compass

60 ft.

The nearest cables to the compasses are as follows:—

A cable carrying

7/20

Amperes

12

feet from standard compass

15

feet from steering compass

A cable carrying

7/18

Amperes

12

feet from standard compass

15

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

Yes.

The maximum deviation due to electric currents, etc., was found to be

0°

degrees on

N and A

standard compass and

degrees on

course in the case of the steering compass.

THE FAIRFIELD SHIPBUILDING

AND ENGINEERING CO., LIMITED.

Builder's Signature.

Date

1/7/04

GENERAL REMARKS.

This installation has been fitted in accordance with the rules and satisfactorily tested under full power.

George Murdoch

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

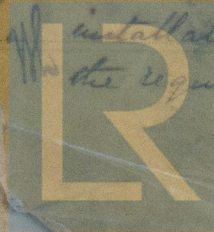
Committee's Minute

Glasgow 1904  
Recd.

MAY 1904

MACHINERY CERTIFICATE

2-604



Lloyd's Register Foundation