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Electric Light Installation fitted by  
When fitted  
DESCRIPTION OF DYNAMO, ENGINE, ETC.  
Capacity of Dynamo  
Where is Dynamo fixed  
of Main Switch Board  
of auxiliary switch boards and numbers of switches on each  
are fitted on main switch board to the cables of main circuit  
and at each position where a cable is branched or reduced in size  
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  
the cut outs of non-oxidizable metal  
all cut outs fitted in easily accessible positions  
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  
A  
B  
C  
D  
E  
1  
2  
4  
If are lights, what protection is provided against fire, sparks, &c.  
Where are the switches controlling the masthead and side lights placed  
DESCRIPTION OF CABLES.  
in cable carrying  
cables carrying  
bles carrying  
amps carrying  
cables carrying  
ION OF INSULATION, PROTECTION, ETC.  
use Rubber insulation  
tanned hemp, and armoured with galv iron wire and  
outer coating of tanned tape  
bles, how made, insulated, and protected  
oints of cables thoroughly soldered, resin only having been used as a flux  
bunkers, cargo spaces, or spaces which may at any time be used for carrying cargo, stores, or baggage  
oints in or branches from the cable leading from dynamo to main switch board  
cables led through the ship, and how protected  
main foreholds the wires are enclosed in Galvanised iron pipes  
also to mast & side lights. In the alleyways & engine room  
el & forehold armoured cables with outer coating of tanned  
In saloon, officers room & wood casing.

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# REPORT ON ELECTRIC LIGHTING INSTALLATION. No. 4534

Received at London Office MON. 16 SEP 1895

Port of Belfast Date of First Survey 8 Aug Date of Last Survey 6 Sept No. of Visits 7  
No. in on the Iron or Steel Screw Steamer "PARKING" Port belonging to London  
Reg. Book Built at Belfast By whom W. R. R. Clark & Co. When built 1895  
Owners China Mutual Steamer Co. Ltd. Owners Address 3 Billiter Avenue London E.C.  
Yard No. 120 Electric Light Installation fitted by W. C. Martin & Co. Glasgow When fitted 1895

## DESCRIPTION OF DYNAMO, ENGINE, ETC.

Diesel engine coupled to compound wound dynamo

Capacity of Dynamo 65 Amperes at 100 Volts, continuous current

Where is Dynamo fixed Starting Platform in Engine Room

of Main Switch Board Starting Platform having switches to groups 29, 30, 31 of lights, &c., as below

of auxiliary switch boards and numbers of switches on each none

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

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

the cut outs of non-oxidizable metal yes and constructed to fuse at an excess of 50 per cent over the normal current

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 all fitted on plate.

Total number of lights provided for 86 arranged in the following groups:—

A 71 lights each of 16 candle power requiring a total current of 42.6 Amperes

B 12 lights each of 32 candle power requiring a total current of 14.4 Amperes

C 3 lights each of 64 candle power requiring a total current of 7.2 Amperes

D lights each of candle power requiring a total current of Amperes

E lights each of candle power requiring a total current of Amperes

1 Mast head light with double lamps each of 32 candle power requiring a total current of 2.4 Amperes

2 Side lights with double lamps each of 32 candle power requiring a total current of 4.8 Amperes

4 Cargo lights of 8 lamps each 32 candle power, incandescent

If are lights, what protection is provided against fire, sparks, &c. no are lights

Where are the switches controlling the masthead and side lights placed in wheel house on bridge deck

## DESCRIPTION OF CABLES.

in cable carrying 17.4 Amperes, comprised of 19 wires, each 19 L.S.G. diameter, square inches total sectional area

cables carrying 1.6 Amperes, comprised of 1 wires, each 16 L.S.G. diameter, square inches total sectional area

bles carrying — Amperes, comprised of — wires, each — L.S.G. diameter, square inches total sectional area

amps carrying 1.6 Amperes, comprised of 1 wires, each 16 L.S.G. diameter, square inches total sectional area

cables carrying 3.6 Amperes, comprised of 346 wires, each 16 L.S.G. diameter, square inches total sectional area

## ION OF INSULATION, PROTECTION, ETC.

use Rubber insulation tapes, braided & vulcanized, covered

tanned hemp, and armoured with galv iron wire and

outer coating of tanned tape

bles, how made, insulated, and protected no joints

oints of cables thoroughly soldered, resin only having been used as a flux joints Are all joints in accessible positions, none being

bunkers, cargo spaces, or spaces which may at any time be used for carrying cargo, stores, or baggage

oints in or branches from the cable leading from dynamo to main switch board none

cables led through the ship, and how protected Through the alleyways, & main foreholds

main foreholds the wires are enclosed in Galvanised iron pipes

also to mast & side lights. In the alleyways & engine room

el & forehold armoured cables with outer coating of tanned

In saloon, officers room & wood casing.



**DESCRIPTION OF INSULATION, PROTECTION, ETC.—continued.**

Are they in places always accessible *all except branch going to fore-castle*

What special protection has been provided for the cables in open alleyways or where exposed to weather or moisture *Armoured cables & galvanised iron pipes.*

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

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

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

How are cables carried through beams *unarmoured cables in bulkheads, &c. in galvanised iron*

How are cables carried through decks *galvanised iron tubes*

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

If so, how are they protected *galvanised iron tubes & armoured cables*

Are any lamps fitted in coal bunkers or spaces which may at times be used for cargo, coals, or baggage *4 lamps in alleyway*

If so, how are the lamp fittings and cable terminals specially protected *by iron shutters on back*

Where are the main switches and cut outs for these lights fitted *distribution box in engine room*

If in the spaces, how are they specially protected *\_\_\_\_\_*

Are any switches or cut outs fitted in bunkers *none*

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 *\_\_\_\_\_*

**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 *\_\_\_\_\_* an amperemeter, fixed

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 *2000* m 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 that it is at this date in good order and safe working condition.

*W. C. Martin Esq*

Electrical Engineers

Date *Sept 6*

**COMPASSES.**

Distance between dynamo or electric motors and standard compass *130 feet.*

Distance between dynamo or electric motors and steering compass *170 "*

The nearest cables to the compasses are as follows:—

A cable carrying	<i>1.5</i>	Amperes	<i>about 8</i>	feet from standard compass	<i>8</i>	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 *yes*

The maximum deviation due to electric currents, etc., was found to be *nil* degrees on *each* course in the standard compass and *nil* degrees on *each* course in the case of the steering compass.

Builder's Signature

Date

**GENERAL REMARKS.**

Committee's Minute

*A. L. Jones*

Surveyor to Lloyd's Register of British and Foreign Ships

Foreign &