

# REPORT ON ELECTRIC LIGHTING INSTALLATION. No. 5306

Port of Plymouth Date of First Survey 11. Nov. '09 Date of Last Survey 25 May '10 No. of Visits 23  
 No. in Reg. Book on the Iron Steel Screw Lug Kanube II Port belonging to London  
 Built at Dartmouth By whom Philip & Son Ltd. When built 5-10  
 Owners J. Constant Owners Address 11. Belliter Square, London.  
 Yard No. 368 Electric Light Installation fitted by Philip & Son Ltd, Dartmouth When fitted 5-10

## DESCRIPTION OF DYNAMO, ENGINE, ETC.

4 1/2" x 4" enclosed type single cylinder high speed engine direct coupled to Crompton Compound wound continuous current dynamo Speed 550 revs  
 Capacity of Dynamo 33 1/2 Amperes at 60 Volts, whether continuous or alternating current Continuous  
 Where is Dynamo fixed In Engine Room. Single System.  
 Position of Main Switch Board In engine room. having ~~switches~~ 2 switches to all lights, &c., as below:  
 Positions of auxiliary switch boards and numbers of switches on each Not fitted.

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 No and at each position where a cable is branched or reduced in size 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 — 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 —

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

Total number of lights provided for 21 arranged in the following groups:—

A galley crew spaces	3 lights each of 16 cp.	candle power requiring a total current of 3.3	Amperes
B eng. room & storehold	5 lights each of 16 cp.	candle power requiring a total current of 5.5	Amperes

The copper used is guaranteed to have a conductivity of 99 per cent. that of pure copper.

Insulation of cables is guaranteed to have a resistance of not less than 2500 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.

Installation by G. Howell Philip & Son Ltd. (makers of Engine & Dynamo.)

Electrical Engineers Date June 28/1910

## COMPASSES.

Distance between dynamo or electric motors and standard compass 34 feet.

Distance between dynamo or electric motors and steering compass 34 feet.

The nearest cables to the compasses are as follows:—

A cable carrying	5.5 Amperes	feet from standard compass	} about } feet from steering compass
A cable carrying	5.5 Amperes	feet from standard compass	
A cable carrying	5.5 Amperes	feet from standard 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 2 degrees on N. E. to N. by E course in the case of the steering compass

FOR PHILIP & SON LIMITED

G. Howell Philip DIRECTOR

Builder's Signature Date

## GENERAL REMARKS.

This vessel has been fitted with an Electric Light Installation as above and is ready for notification in the Register Book.

James Barclay Surveyor to Lloyd's Register

Committee's Minute



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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

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

*None. No cables in vicinity of lamps. Galley light close to bulkhead*

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

*None, cables above boiler and fastened to casing*

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

*None, all cables fastened under deck or on bulkhead high up*

How are cables carried through beams

*Clearance holes & wood battens between beams through bulkheads, &c. wood ferrules.*

How are cables carried through decks

Are any cables run through coal bunkers

*no or cargo spaces no or spaces which may be used for carrying cargo, stores, or baggage no*

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

*No.*

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

*with bolt & washer to stringer head dynamo*

How are the returns from the lamps connected to the hull

*to angle beams with washer & screws tapped into beam.*

Are all the joints with the hull in accessible positions

*Yes.*

**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 instruments applied with a voltmeter and

*an amperemeter, fixed on main switch board*

Deck lights below deck 3 lights each of 16 cp

candle power requiring a total current of 3.3 Amperes

Starboard below deck 5 lights each of 16 cp

candle power requiring a total current of 5.5 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

None Cargo lights of None

candle power, whether incandescent or arc lights ~~incandescent~~

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

*Not fitted*

Where are the switches controlling the masthead and side lights placed

*Not fitted*

**DESCRIPTION OF CABLES.**

Cable carrying 33 1/2 Amperes, comprised of 7 wires, each 14 L.S.G. diameter, .035 square inches total sectional area

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

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

ing 5.5 Amperes, comprised of 3 wires, each 20 L.S.G. diameter, .003 square inches total sectional area

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

**INSULATION, PROTECTION, ETC.**

*taken from engine room switchboard with hot lamps on each circuit wires 2500 meg. lead cased &*

*ed, and protected No joints.*

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

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

*No.*

cable leading from dynamo to main switch board

*l how protected in accessible position & ferruled where bulkhead close up to main deck.*

Committee's Minute

Assigned

Certificate (if required) to be sent to

The Surveyors are not to write on or below the space for Committee's Minute.

WRITE ACROSS THIS MARGIN

