

# REPORT ON ELECTRIC LIGHTING

Port of Bristol Date of First Survey 4<sup>th</sup> July Date of Last Survey             
 Reg. No.            on the 1<sup>st</sup> Steel S.S. War ~~Wicket~~ Port belonging to             
 Built at Bristol Standard 5 Type            By whom C. Hill & Sons  
 Owners Managers Ailin, Adams & Co. Ltd Owners Address Southampton  
 Yard No. 127 Electric Light Installation fitted by C. Hill & Sons

## DESCRIPTION OF DYNAMO, ENGINE, ETC.

Open Type Vertical Single Phase  
direct coupled to a multi pole  
Dynamo  
 Capacity of Dynamo 100 Amperes at 100 Volts, whether continuous or alternating  
 Where is Dynamo fixed Engine Room

Position of Main Switch Board Engine Room bulkhead having switches to groups 5 groups  
 Positions of auxiliary switch boards and numbers of switches on each Engine Room 9 switches  
Storing way, 25 switches in accommodation. Chart room 12 switches  
Boop, 21 switches in accommodation

If cut outs are fitted on main switch board to the cables of main circuit Yes and on each auxiliary switch board Yes  
 circuits Yes and at each position where a cable is branched or reduced in size Yes and to each  
 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 Yes  
 Are the cut outs of non-oxidizable metal Yes and constructed to fuse at an excess of 50 p.p.  
 Are all cut outs fitted in easily accessible positions Yes Are the fuses of standard dimensions Yes  
 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 124 arranged in the following groups :-  
 A Navigation lights each of Admiralty Regulation candle power requiring a total current of             
 B Cabin & Crew Accom. lights each of 16 candle power requiring a total current of             
 C Engine & Boiler Room lights each of 16 candle power requiring a total current of             
 D Cargo lights each of 16 candle power requiring a total current of             
 E Writers lights each of            candle power requiring a total current of             
 Mast head light with            lamps each of Admiralty Regulation candle power requiring a total current of             
 Side light with            lamps each of            candle power requiring a total current of             
4 clusters Cargo lights of 16 " candle power requiring a total current of             
 candle power, whether incandescent or           

If arc lights, what protection is provided against fire, sparks, &c.             
 Where are the switches controlling the masthead and side lights placed Chart room with

## DESCRIPTION OF CABLES.

Main cable carrying	<u>113</u> Amperes, comprised of	<u>19</u> wires, each	<u>14</u> L.S.G. diameter,
Branch cables carrying	<u>46</u> Amperes, comprised of	<u>7</u> wires, each	<u>16</u> L.S.G. diameter,
Branch cables carrying	<u>34</u> Amperes, comprised of	<u>7</u> wires, each	<u>18</u> L.S.G. diameter,
Leads to lamps carrying	<u>7.2</u> Amperes, comprised of	<u>3</u> wires, each	<u>22</u> L.S.G. diameter,
Light cables carrying	<u>24</u> Amperes, comprised of	<u>7</u> wires, each	<u>20</u> L.S.G. diameter,

## DESCRIPTION OF INSULATION, PROTECTION, ETC.

Cable Makers Association V.I.R. Armoured & braided  
& Lead covered, 600 Megohm Grade cable

Joints in cables, how made, insulated, and protected Junction boxes prot

Are all the joints of cables thoroughly soldered, resin only having been used as a             
 made in bunkers, cargo spaces, or spaces which may at any time be used           

Are there any joints in or branches from the cable leading from dynamo to           

How are the cables led through the ship, and how protected up under decks with galvaniz



TC.—continued.

Yes  
 as in open alleyways or where exposed to weather or moisture *Armoured & Braided*  
*Armoured & lead covered*  
 the cables near galleys or oil lamps or other sources of heat *Lead covered & armoured*  
 for the cables near boiler casings *Lead covered & armoured*  
 for the cables in engine room *Lead covered & armoured*  
 Lead bushed holes through bulkheads, &c. *W.T. glands*  
 Decks *Iron Tubes*  
 Bunkers *Yes* or cargo spaces *Yes* or spaces which may be used for carrying cargo, stores, or baggage *Yes*  
 in Bunkers cables in iron tubing, elsewhere *Lead covered & armoured*  
 Bunkers or spaces which may at times be used for cargo, coals, or baggage *No*  
 Lights and cable terminals specially protected ✓  
 Switches and cut outs for these lights fitted ✓  
 Lights specially protected ✓  
 Lights fitted in bunkers *No*  
 Lights portable or permanently fixed *Portable* How fixed ✓  
 Wire system, how is the dynamo terminal fixed to the hull of vessel ✓  
 Lamps connected to the hull ✓  
 Lamps in accessible positions ✓

**INSTALLING PETROLEUM.**

Switches and cut-outs fitted in positions not liable to the accumulation of petroleum vapour or gas  
 Joints of cables fitted in the pump room or companion  
 Switches protected in places liable to the accumulation of vapour or gas  
 Circuits supplied with a voltmeter and an amperemeter, fixed

Wires needed to have a conductivity of *100* per cent. that of pure copper.  
 Wires guaranteed to have a resistance of not less than *600* megohms per  
 4 hours' immersion in seawater.

We give a correct description of the Electric Light installation fitted by us on this vessel and we declare it in good order and safe working condition.

Electrical Engineers Date

Standard compass *68 ft*  
 Steering compass *64 ft*  
 Cables running into compasses for lighting  
 Amperes ✓ feet from standard compass feet from steering compass  
 Amperes ✓ feet from standard compass feet from steering compass  
 Amperes ✓ feet from standard compass feet from steering compass

When the electric installation at work at full power *Yes*  
 It was found to be \_\_\_\_\_ degrees on \_\_\_\_\_ course in the case of the  
 steering compass.

Builder's Signature Date *29 July 1918*

The installation has been fitted in accordance with  
 approved specification & has been tried under  
 satisfactory results

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

THE SURVEYORS ARE REQUESTED NOT TO WRITE ACROSS THIS MARGIN.



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