

# REPORT ON ELECTRIC LIGHTING INSTALLATION. No. 22923

Port of Hull — Date of First Survey July 11<sup>th</sup> Date of Last Survey Aug 20<sup>th</sup> 1910 No. of Visits 8.

No. in Reg. Book 2946 on the ~~Iron~~ Steel S.S. Brittany Built at Hull Port belonging to Messrs Earle & Co By whom Messrs Earle & Co When built 1910.

Owners London, Brighton & S. Coast Ry. Co. Owners' Address London & Newham

Yard No. 592 Electric Light Installation fitted by Messrs Clarke Chapman & Co When fitted 1910.

### DESCRIPTION OF DYNAMO, ENGINE, ETC.

The single cylinder double acting open type vertical engine direct coupled to a continuous current compound wound dynamo

Capacity of Dynamo 75 Amperes at 100 Volts, whether continuous or alternating current continuous

Where is Dynamo fixed in engine room Whether single or double wire system is used Double

Position of Main Switch Board near dynamo having switches to groups A. B. C. & D. of lights, &c., as below

Positions of auxiliary switch boards and numbers of switches on each Each light & groups of lights provided with switches as required.

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 yes 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 of 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 50 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 on main S. Board.

Are all switches and cut-outs constructed of incombustible materials and fitted on incombustible bases yes, slate & porcelain

Total number of lights provided for 78-16cp arranged in the following groups :-

A	<u>Projector</u>	lights each of	<u>2500</u>	candle power requiring a total current of	<u>15</u>	Amperes
B	<u>40</u>	lights each of	<u>16</u>	candle power requiring a total current of	<u>74</u>	Amperes
C	<u>26</u>	lights each of	<u>16</u>	candle power requiring a total current of	<u>15.6</u>	Amperes
D	<u>12</u>	lights each of	<u>16</u>	candle power requiring a total current of	<u>7.2</u>	Amperes
E	<u>—</u>	lights each of	<u>—</u>	candle power requiring a total current of	<u>—</u>	Amperes
<u>2</u>	<u>Mast head light with</u>	<u>1 lamp</u> each of	<u>32</u>	candle power requiring a total current of	<u>1.2</u>	Amperes
<u>2</u>	<u>Side light with</u>	<u>1 lamp</u> each of	<u>32</u>	candle power requiring a total current of	<u>1.2</u>	Amperes
<u>2</u>	<u>Cargo lights of</u>	<u>6-16</u>		candle power, whether incandescent or arc lights	<u>incandescent</u>	

If arc lights, what protection is provided against fire, sparks, &c. none fitted

Where are the switches controlling the masthead and side lights placed in wheelhouse

### DESCRIPTION OF CABLES.

Main cable carrying	<u>75</u> Amperes, comprised of	<u>19</u> wires, each	<u>14</u> L.S.G. diameter, <u>.0937</u> square inches total sectional area
Branch cables carrying	<u>15</u> Amperes, comprised of	<u>7</u> wires, each	<u>17</u> L.S.G. diameter, <u>.0169</u> square inches total sectional area
Branch cables carrying	<u>74</u> Amperes, comprised of	<u>7</u> wires, each	<u>15</u> L.S.G. diameter, <u>.0280</u> square inches total sectional area
Leads to lamps carrying	<u>.6</u> Amperes, comprised of	<u>1</u> wires, each	<u>18</u> L.S.G. diameter, <u>.00181</u> square inches total sectional area
Cargo light cables carrying	<u>36</u> Amperes, comprised of	<u>176</u> wires, each	<u>38</u> L.S.G. diameter, <u>.00502</u> square inches total sectional area

### DESCRIPTION OF INSULATION, PROTECTION, ETC.

Vulcanized india rubber, taped and braided. Lead covered in casing for accommodation. Steel armour where exposed.

Joints in cables, how made, insulated, and protected no joints except mechanical ones.

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, no.

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 Clipped up & underside of deck. lead covered & armoured cables.

