

# REPORT ON ELECTRIC LIGHTING INSTALLATION. No. 6922

Port of Newcastle-on-Tyne Date of First Survey 11<sup>th</sup> Aug Date of Last Survey 6<sup>th</sup> Sept 1916 No. of Visits 8  
 No. in Reg. Book on the Iron or Steel S.S. "British Emperor" Port belonging to London  
 Built at Walker-on-Tyne By whom Messrs. Sir W. G. Armstrong Whit. & Co. When built 1915-6  
 Owners British Tanker Co. Ltd. Owners' Address \_\_\_\_\_  
 Yard No. \_\_\_\_\_ Electric Light Installation fitted by G. Holmes & Co. When fitted 1916

## DESCRIPTION OF DYNAMO, ENGINE, ETC.

One 6" x 6" open single cylinder engine by Robey & Co., coupled to one "Holmes" dynamo.  
 Capacity of Dynamo 110 Amperes at 100 Volts, whether continuous or alternating current continuous  
 Where is Dynamo fixed Starboard side of 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 1-6 way fusebox in Stairs (Forward), 9 way fusebox in Wheelhouse, 1-4 way 15 amp section box in Pantry, 1-8 way fusebox in Pantry, 4 way fusebox in E.S. case with switches outside Pump Room, 8 way fusebox w/ switches in Engine Room, 8 way fusebox in Eng's Passage Starboard, 3 way box in Galley etc.  
 If fuses 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 fuses fitted to both flow and return wires or cables of all circuits including lamp circuits yes  
 Are the fuses of non-oxidizable metal yes and constructed to fuse at an excess of 100 per cent over the normal current  
 Are all fuses 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 fuses constructed of incombustible materials and fitted on incombustible bases yes  
 Total number of lights provided for 96-25 6P, 6-32 6P, 415 fans arranged in the following groups :-  

A	<u>55</u> lights each of <u>25</u> candle power requiring a total current of <u>25.5</u> Amperes
B	<u>21</u> lights each of <u>32</u> candle power requiring a total current of <u>6.3</u> Amperes
C	<u>5</u> fans each taking <u>.45</u> amps. <u>20</u> lights each of <u>25</u> candle power requiring a total current of <u>10.55</u> Amperes
D	<u>2</u> lights each of <u>32</u> candle power requiring a total current of _____ Amperes
E	_____ lights each of _____ candle power requiring a total current of _____ Amperes
	<u>2</u> Mast head lights with <u>1</u> lamps each of <u>32</u> candle power requiring a total current of <u>2.24</u> Amperes
	<u>2</u> Side lights with <u>1</u> lamps each of <u>32</u> candle power requiring a total current of <u>2.24</u> Amperes
	_____ Cargo lights of _____ candle power, whether incandescent or arc lights _____

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

Where are the switches controlling the masthead and side lights placed in Wheel House

## DESCRIPTION OF CABLES.

Main cable carrying 110 Amperes, comprised of 19 wires, each 14 S.W.G. diameter, .094 square inches total sectional area  
 Branch cables carrying 25.5 Amperes, comprised of 19 wires, each 14 S.W.G. diameter, .046 square inches total sectional area  
 Branch cables carrying 6.3 Amperes, comprised of 4 wires, each 18 S.W.G. diameter, .012 square inches total sectional area  
 Leads to lamps carrying .3 Amperes, comprised of 1 wires, each 18 S.W.G. diameter, .0018 square inches total sectional area  
 Cargo light cables carrying \_\_\_\_\_ Amperes, comprised of \_\_\_\_\_ wires, each \_\_\_\_\_ S.W.G. diameter, \_\_\_\_\_ square inches total sectional area

## DESCRIPTION OF INSULATION, PROTECTION, ETC.

Conductors composed of high conductivity copper, insulated with pure and vulcanised india rubber, taped armoured with steel wires, taped braided scampounded overall.  
 Joints in cables, how made, insulated, and protected none, looping-in system carried out or special connection boxes used  
 Are all the joints of cables thoroughly soldered, and the flux used not containing acids or other corrosive substances  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   
 Are there any joints in or branches from the cable leading from dynamo to main switch board   
 How are the cables led through the ship, and how protected In accommodation, lead covered clipped up, Engine & Boiler Spaces, Armoured braided. Mains, U.S.R. in galv. iron pipe under fore safe gangways.

