

# REPORT ON ELECTRIC LIGHTING INSTALLATION. No. 27572

Port of SUNDERLAND Date of First Survey 15 Apr Date of Last Survey 7 May 1919 No. of Visits 3  
 No. in Reg. Book on the Iron or Steel ADMIRAL HAMILTON Port belonging to London  
 Built at SUNDERLAND By whom JOHN PRIESTMAN & CO. When built 1919  
 Owners Byron Slack Owners' Address J. L. Holmes & Co. Newcastle When fitted 1919  
 Yard No. 281 Electric Light Installation fitted by J. L. Holmes & Co. Newcastle

## DESCRIPTION OF DYNAMO, ENGINE, ETC.

1-6 1/2 x 6 Open Vertical Single Cylinder Engine coupled Direct to 1-12 1/2 H  
Open Type Dynamo by J. L. Holmes & Co.  
 Capacity of Dynamo 100 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 E of lights, &c., as below  
 Positions of auxiliary switch boards and numbers of switches on each 2-3 way 10 Amp. Section Boxes in Steering Gear  
1-3 way 5 amp. Section in Chart Room 1-6 way 5 amp. Box in Wheelhouse 1-8 way Box in Passage  
1-6 way Box in Engine Room  
 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-oxidisable 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 18016 CP arranged in the following groups:—  

Group	Lights	Each of	Candle power	Requiring a total current of	Amperes
A	12	32	16	Approx 10.5	Amperes
B	51	16	16	15.5	Amperes
C	25	16	16	14	Amperes
D	30	16	16	16.8	Amperes
E	Masthead Circuit				Amperes
	2 Mast head light with 1 lamps each of 32			224	Amperes
	2 Side light with 1 lamps each of 32			224	Amperes
	5 Cargo lights of 6 x 16				Incandescent

 candle power, whether incandescent or arc lights Incandescent

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

Where are the switches controlling the masthead and side lights placed In Wheelhouse

## DESCRIPTION OF CABLES.

Main cable carrying	Amperes, comprised of	wires, each	S.W.G. diameter,	square inches total sectional area
100	19	14	.094	
Branch cables carrying 15.5	4	16	.022	
Branch cables carrying 14	4	18	.012	
Leads to lamps carrying 56	1	18	.0018	
Cargo light cables carrying 336	3	20	.003	

## DESCRIPTION OF INSULATION, PROTECTION, ETC.

All conductors are formed of H.C. Copper Tinned insulated with pure Para Rubber & insulated India Rubber Armoured with Galvanised Sheet Wire Taped & Braided overall  
 Joints in cables, how made, insulated, and protected None, Looping In System Covered Out  
 Are all the joints of cables thoroughly soldered, and the flux used not containing acids or other corrosive substances None 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 None  
 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 In Cargo Spaces Armoured & Braided Clipped to under side of Deck In Engine Room Armoured & Braided Clipped to bulkheads In Accommodation Lead covered clipped up



