

REPORT ON ELECTRIC LIGHTING INSTALLATION. No. 26299

Port of SUNDERLAND. Date of First Survey 17 Nov Date of Last Survey 4 Dec '14 No. of Visits 4
 No. in on the Iron or Steel S.S. "Umvuma" Port belonging to London
 Reg. Book Built at Sunderland. By whom Messrs Sir Jas. Laing & Sons When built 1914
 Owners Ballard King & Co. Owners' Address London
 Yard No. Electric Light Installation fitted by Sunderland Forge & Engineering Co., When fitted 1914

DESCRIPTION OF DYNAMO, ENGINE, ETC.

One multipolar compound wound dynamo, coupled direct to open type inverted engine.

Capacity of Dynamo 150 Amperes at 100 Volts, whether continuous or alternating current continuous
 Where is Dynamo fixed star'be side bottom Eng. room. Whether single or double wire system is used double
 Position of Main Switch Board close to plant. having switches to groups 6 of lights, &c., as below
 Positions of auxiliary switch boards and numbers of switches on each one in chart room controlling 2 masthead,
2 side lights, 1 morse, 1 compass.

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 no 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 174 arranged in the following groups:—

A	26	lights each of	16	candle power requiring a total current of	14.04	Amperes		
B	24	lights each of	16	candle power requiring a total current of	12.96	Amperes		
C	40	lights each of	16	candle power requiring a total current of	21.60	Amperes		
D	53	lights each of	16	candle power requiring a total current of	28.62	Amperes		
E	51	lights each of	16	candle power requiring a total current of	16.74	Amperes		
	2	Mast head light with	1	lamps each of	32 D.F.	candle power requiring a total current of	2.16	Amperes
	2	Side light with	1	lamps each of	32 D.F.	candle power requiring a total current of	2.16	Amperes
	4	Cargo lights of	6-16	candle power, whether incandescent or arc lights	incandescent.			

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

Where are the switches controlling the masthead and side lights placed in chart room.

DESCRIPTION OF CABLES.

Main cable carrying 108.96 Amperes, comprised of 37 wires, each 15 S.W.G. diameter, .150 square inches total sectional area
 Branch cables carrying 28.62 Amperes, comprised of 7 wires, each 16 S.W.G. diameter, .022 square inches total sectional area
 Branch cables carrying 21.60 Amperes, comprised of 7 wires, each 18 S.W.G. diameter, .0125 square inches total sectional area
 Leads to lamps carrying 2.16 Amperes, comprised of 1 wires, each 18 S.W.G. diameter, .0018 square inches total sectional area
 Cargo light cables carrying 3.24 Amperes, comprised of 1 wires, each 16 S.W.G. diameter, .0032 square inches total sectional area

DESCRIPTION OF INSULATION, PROTECTION, ETC.

Wiring in berths etc., L.C. and V.I.R. in wood casing.

Wiring in Engine room etc., A. & B.

Mains and masts V.I.R. in iron pipe.

Joints in cables, how made, insulated, and protected

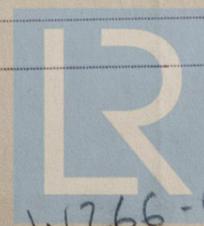
There are none.

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 no.

How are the cables led through the ship, and how protected V.I.R. iron pipe.

F. Wireless. 1½ K.W. - 15 amperes.



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