

REPORT ON ELECTRIC LIGHTING INSTALLATION. No. 38162

Port of Glasgow Date of First Survey June 25 1918 Date of Last Survey Sept 12 1918 No. of Visits 21
 No. in Reg. Book 54 on the Iron or Steel Macharda Port belonging to Liverpool
 Built at Port Glasgow By whom Messrs Russell & Co When built 1918
 Owners Messrs T. & J. Brodie Bank Ltd Owners' Address _____
 Yard No. 710 Electric Light Installation fitted by Messrs H. T. Roberson & Co When fitted 1918

DESCRIPTION OF DYNAMO, ENGINE, ETC.

Two dynamo, compound wound multipolar (4 pole) type, each dynamo coupled direct to a vertical engine having cylinder 8x4 @ 245 rev.
 Capacity of Dynamo each 150 Amperes at 100 Volts, whether continuous or alternating current continuous
 Where is Dynamo fixed engine room starting platform Whether single or double wire system is used Double wire
 Position of Main Switch Board near dynamo having switches to groups A, B, C, D, E, F of lights, &c., as below
 Positions of auxiliary switch boards and numbers of switches on each No auxiliary switchboards

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 50 per cent over the normal current
 Are all fuses fitted in easily accessible positions yes Are the fuses of standard dimensions wire 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 189 arranged in the following groups:—
 Plus 2 are lamps & projector
 A lights each of _____ candle power requiring a total current of _____ Amperes
 B lights each of _____ candle power requiring a total current of _____ Amperes
 C lights each of _____ candle power requiring a total current of _____ Amperes
 D lights each of 000 candle power requiring a total current of _____ Amperes
 E lights each of _____ candle power requiring a total current of _____ Amperes
Two Mast head light with 1 lamp each of 22 candle power requiring a total current of included in D Amperes
Two Side light with 1 lamp each of 8 candle power requiring a total current of _____ Amperes
Two Cargo lights of 96 candle power, whether incandescent or arc lights Both
Two Are lamps 1000
 If arc lights, what protection is provided against fire, sparks, &c. Strong hexagon glazed lanterns & double enclosed globe
 Where are the switches controlling the masthead and side lights placed chart room & master switch on Bridge

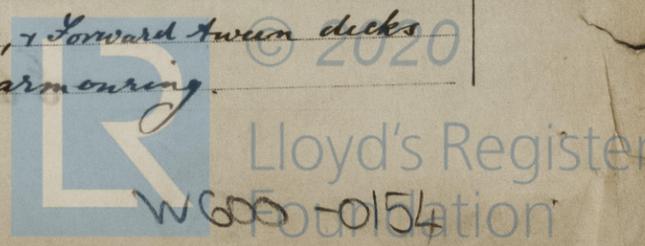
DESCRIPTION OF CABLES.

Main cable carrying 150 Amperes, comprised of 37 wires, each 15 S.W.G. diameter, 151 square inches total sectional area
 Branch cables carrying 24 Amperes, comprised of 7 wires, each 16 S.W.G. diameter, 0235 square inches total sectional area
 Branch cables carrying 12.6 Amperes, comprised of 7 wires, each 18 S.W.G. diameter, 0127 square inches total sectional area
 Leads to lamps carrying 6 Amperes, comprised of 1 wires, each 17 S.W.G. diameter, 00246 square inches total sectional area
 Cargo light cables carrying 3.6 Amperes, comprised of 119 wires, each 38 S.W.G. diameter, 00322 square inches total sectional area

DESCRIPTION OF INSULATION, PROTECTION, ETC.

Pure india rubber then vulcanising india rubber and rubber coated tape the whole vulcanised together, taped & lead covered in accommodation elsewhere galv wire armoured.
 Joints in cables, how made, insulated, and protected No joints

Are all the joints of cables thoroughly soldered, and the flux used not containing acids or other corrosive substances No joints Are all joints in accessible positions, none being made in bunks, cargo spaces, or spaces which may at any time be used for carrying cargo, stores, or baggage No joints
 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 Forward under Bridge deck, & Forward twin decks aft thro shaft tunnel to poop, galv wire armoured.



DESCRIPTION OF INSULATION, PROTECTION, ETC.—continued.

Are they in places always accessible

Yes

What special protection has been provided for the cables in open alleyways or where exposed to weather or moisture

Lead covered in

galv^d iron pipes

What special protection has been provided for the cables near galleys or oil lamps or other sources of heat

Lead covered & armoured

What special protection has been provided for the cables near boiler casings

Lead covered & armoured

What special protection has been provided for the cables in engine room

Armoured with galv^d wire armouring

How are cables carried through beams

In lead bushes through bulkheads, &c.

with tight glands

How are cables carried through decks

In Galv^d iron tubes

Are any cables run through coal bunkers

etc

or cargo spaces

yes

or spaces which may be used for carrying cargo, stores, or baggage

yes



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