

REPORT ON ELECTRIC LIGHTING INSTALLATION. No. 11

Port of Detroit, Mich. Date of First Survey July 18th Date of Last Survey Augt. 9th No. of Visits 4
 No. in on the ~~Iron~~ or Steel single screw steamer "TAUTE" Port belonging to Chastania
 reg. Book Built at Windsor, Mich. By whom Detroit S. B. Coy. When built 1916
 Owners Pim Pimstad and Coy. Owners' Address E. Stikgaden, Chastania
 Card No. 197 Electric Light Installation fitted by Detroit S. B. Coy. When fitted 1916

DESCRIPTION OF DYNAMO, ENGINE, ETC.

4 1/2 K.W. Engberg generator compound wound, 4 pole, direct connected to single cylinder (6 1/2") vertical, enclosed type engine - 500 R.P.M.
 Capacity of Dynamo 69 Amperes at 110 Volts, whether continuous or alternating current Continuous
 Where is Dynamo fixed Starboard side engine room platform Whether single or double wire system is used double
 Position of Main Switch Board S.S. engine room platform having switches to groups 14 of lights, &c., as below
 Positions of auxiliary switch boards and numbers of switches on each Crew quarters aft 4. Port cabin 5. Starboard cabin 5.

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 30 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 175 arranged in the following groups:—
 A Aft crew quarters lights each of 25 Watts candle power requiring a total current of 5 Amperes
 B Port cabin lights each of 25 " candle power requiring a total current of 5 Amperes
 C Starboard cabin lights each of 25 " candle power requiring a total current of 5 Amperes
 D lights each of candle power requiring a total current of Amperes
 E lights each of candle power requiring a total current of Amperes
 1 Mast head light with 2 lamps each of 60 Watts candle power requiring a total current of 1/2 Amperes
 2 Side light with 2 lamps each of 60 " candle power requiring a total current of 1/2 Amperes
 4-4 light deck Cargo lights of 160 Watts candle power, whether incandescent or arc lights Mazda
 If arc lights, what protection is provided against fire, sparks, &c. No arc lights

Where are the switches controlling the masthead and side lights placed Chart room

DESCRIPTION OF CABLES.

Wires	Amperes	Comprised of	Wires	Each	No.	S.W.G. diameter	Circ. MILS.	Square inches	Total sectional area
Main cable carrying	90	comprised of	2	wires, each	N ^o 2	S.W.G. diameter,	66370	square inches	total sectional area
Branch cables carrying	24	comprised of	2	wires, each	N ^o 10	S.W.G. diameter,	10380	square inches	total sectional area
Branch cables carrying	24	comprised of	2	wires, each	N ^o 10	S.W.G. diameter,	10380	square inches	total sectional area
Leads to lamps carrying	10	comprised of	2	wires, each	N ^o 14	S.W.G. diameter,	4107	square inches	total sectional area
Cargo light cables carrying		comprised of	2	wires, each	N ^o 14	S.W.G. diameter,	4107	square inches	total sectional area

DESCRIPTION OF INSULATION, PROTECTION, ETC.

Cables Sulcanized rubber double braided led thro' wood moulding
 All other parts led thro' galvanized steel conduit 1/2" & 3/4" sizes
 Joints in cables, how made, insulated, and protected All joints soldered, taped first with rubber then covered with friction tape and given a heavy coat of P.S.B. insulating paint
 Are all the joints of cables thoroughly soldered, and the flux used not containing acids or other corrosive substances 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
 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 Through steel conduits kept in cabins where wooden mouldings are used



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