

Rpt. 13.

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REPORT ON ELECTRIC LIGHTING INSTALLATION. No.

Port of Gothenburg Date of First Survey Oct. 24 Date of Last Survey Dec 29 No. of Visits 17
 No. in Nuolja on the Iron or Steel Gothenburg Port belonging to Stockholm
 Reg. Book 40213 Built at Gothenburg By whom A/B Götaverken When built 1923
 Owners Trafik A/B. Grängesberg-Oxelösund Owners' Address Stockholm
 Yard No M/S 361 Electric Light Installation fitted by Luth & Roséns Elektriska A/Bol. When fitted 1923

DESCRIPTION OF DYNAMO, ENGINE, ETC.

Converter from 220 volts continuous, to 110/continuous current. This converter is delivered by Thomas Thrige, Odense, Danmark. *This motor generator is driven from the main dynamo, 3 in number each of 50 KW. 220 volt & 228 amperes.*

Capacity of Dynamo 125 Amperes at 110 Volts, whether continuous or alternating current continuous

Where is Dynamo fixed in the Engine-room Whether single or double wire system is used double wire

Position of Main Switch Board " " " having switches to groups 8 of lights, &c., as below

Positions of auxiliary switch boards and numbers of switches on each one (A) of 6 gr. in the after-accommodation, one (B) of 6 gr. on stern-mast, one (C) of 8 gr. in the officers-accommodation and one (D) of 6 gr. in the saloon-accommodation, one (E) of 4 gr. in the chartroom, one (F) of 4 gr. on deck midships, one (G) of 6 gr. on fore-mast, one (H) of 3 gr. in fore-castle, one (I) of 12 gr. in the 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-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 253 arranged in the following groups:—

A	A	32	lights each of	16-25	candle power requiring a total current of	8	Amperes
B	B	22	lights each of	25-1000	candle power requiring a total current of	15	Amperes
C	C	44	lights each of	16-25	candle power requiring a total current of	11	Amperes
D	D	32	lights each of	"	candle power requiring a total current of	6	Amperes
E	E	4	lights each of	32	candle power requiring a total current of	4	Amperes
F	F	16	lights each of	25-1000	candle power requiring a total current of	7.5	Amperes
G	G	22	lights each of	"	candle power requiring a total current of	5.5	Amperes
H	H	13	lights each of	16-25	candle power requiring a total current of	3	Amperes
I	I	68	lights each of	16-100	candle power requiring a total current of	19	Amperes
2	Mast head light with	1	lamps each of	32	candle power requiring a total current of	2	Amperes
2	Side light with	1	lamps each of	32	candle power requiring a total current of	2	Amperes

10 Cargo lights of 125 candle power, whether incandescent or arc lights incandescent
 5 " " " 1000 " " " " " " " " " " " "

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

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

DESCRIPTION OF CABLES.

Main cable carrying	79	Amperes, comprised of	19	wires, each	2.17 ^{mm}	S.W.G. diameter,	70	mm ²	square inches total sectional area
Branch cables carrying	15	Amperes, comprised of	7	wires, each	1.35"	S.W.G. diameter,	10	"	square inches total sectional area
Branch cables carrying	10	Amperes, comprised of	7	wires, each	1.05"	S.W.G. diameter,	6	"	square inches total sectional area
Leads to lamps carrying	2	Amperes, comprised of	7	wires, each	0.52"	S.W.G. diameter,	1.5	"	square inches total sectional area
Cargo light cables carrying	4.5	Amperes, comprised of	7	wires, each	0.67"	S.W.G. diameter,	2.5	"	square inches total sectional area

DESCRIPTION OF INSULATION, PROTECTION, ETC.

Cables are insulated with vulcanized rubber, lead armour covered with rubber tape, Where necessary rubber tape and steel armour is used.

Joints in cables, how made, insulated, and protected by porcelain boxes and, where required, by watertight metal boxes.

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 by steel clips, screwed fast and where required protected by iron pipes.



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