

REPORT ON ELECTRIC LIGHTING INSTALLATION.

No. 14138

Port of Hamburg Date of First Survey 3rd April Date of Last Survey 6th June No. of Visits 10
 No. in Reg. Book 97 Supp. on the Iron or Steel Te. St. "Froelberg" Port belonging to Bremen
 Built at Kiel By whom Howaldtswerke When built 1914
 Owners Deutsche Dampfschiff Ges. "Hansa" Owners' Address Bremen
 Yard No. 583 Electric Light Installation fitted by the Builders When fitted 1914

DESCRIPTION OF DYNAMO, ENGINE, ETC.

1 Compound Steam Engine, coupled direct a Allgemeine Electr. Ges. Dynamo, running at about 300 revol. per minute.

Capacity of Dynamo 123 Amperes at 115 Volts, whether continuous or alternating current continuous

Where is Dynamo fixed Engine Room Whether single or double wire system is used double

Position of Main Switch Board Engine Room 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 1 Main switch board in Eng. Room with 9 switches, 1 Staring house with 7 switches, 1 Salon passage with 8 switches, 1 Forecastle with 3 switches, 1 Charterhouse with 4 switches.

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 25 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 267 arranged in the following groups:—

A Eng. & Boil. Space	54 lights each of	16	candle power requiring a total current of	25	Amperes
B Aftship	85 lights each of	16	candle power requiring a total current of	38	Amperes
C Midship	86 lights each of	16	candle power requiring a total current of	38	Amperes
D Forecastle	37 lights each of	16	candle power requiring a total current of	17	Amperes
E Charterhouse	5 lights each of	32	candle power requiring a total current of	5	Amperes
1 Mast head light with	1 lamps each of	32	candle power requiring a total current of	—	Amperes
2 Side light with	1 lamps each of	32	candle power requiring a total current of	—	Amperes
18 cluster lamps included in A, B, C & D.					
2 Cargo lights of			candle power, whether incandescent or arc lights	10	

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

Where are the switches controlling the masthead and side lights placed Charthouse

DESCRIPTION OF CABLES.

Main cable carrying	123 Amperes, comprised of	19 wires, each	2 S.W.G. diameter,	70 square inches total sectional area
Branch cables carrying	45 Amperes, comprised of	7 wires, each	2 S.W.G. diameter,	25 square inches total sectional area
Branch cables carrying	41 Amperes, comprised of	19 wires, each	1.5 S.W.G. diameter,	35 square inches total sectional area
Leads to lamps carrying	2 Amperes, comprised of	2 wires, each	1 S.W.G. diameter,	10 square inches total sectional area
Cargo light cables carrying	8 Amperes, comprised of	19 wires, each	32 S.W.G. diameter,	2.5 square inches total sectional area

DESCRIPTION OF INSULATION, PROTECTION, ETC.

Main and branch cables copper tinned, coated with Bra caoutchouc, coated with impregnated jute tape, lead covered, spun with impregnated jute band, double iron bound and jute spun and asphalted.
 Circuits & Lamp leads: Copper tinned coated with caoutchouc & rubber and spun with tape insertion.

Joints in cables, how made, insulated, and protected Soldered and coated with caoutchouc and tape for lamp circuits and leads, metallic screw joints in water light boxes on incombustible bases for main and branch cables.

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 Main and branch cables carried open except where they are exposed to moisture, where they are led in iron boxes, circuits and lamp leads protected by wood, battens.



