

REPORT ON ELECTRIC LIGHTING INSTALLATION. No. 14255

of Safety port of Hamburg Date of First Survey 4th July Date of Last Survey 24th Oct 1916 No. of Visits 8
 No. in on the Iron or Steel G. S. "Irmgard" Port belonging to Bremen
 g. Book 384 Built at Rostock By whom Akt. Ges. Neptune When built 1914
 Owners Hamburg-Bremersche Hafenc. & K. Linie Owners' Address Bremen
 Card No. 339 Electric Light Installation fitted by The Prudlers When fitted 1914

DESCRIPTION OF DYNAMO, ENGINE, ETC.

1 compound Steam Engine coupled direct to dynamo made by the
 Voßdorff. Masch. & Armaturen Fabrik running at 300 rev. per minute.

Capacity of Dynamo 190 Amperes at 110 Volts, whether continuous or alternating current continuous

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

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 2 Steering Eng space with 10 switches, 1 in Pantry
 with 6 switches, 1 under Forecastle with 2 switches, & 1 in Charthouse with 6
 switches available.

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 —

Are the fuses of non-oxidizable metal yes and constructed to fuse at an excess of 20 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 —

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 Engg. & H. Space	44 lights each of	16	candle power requiring a total current of	20	Amperes
B After bridge &c.	35 lights each of	16	candle power requiring a total current of	14	Amperes
C Mast head	68 lights each of	16	candle power requiring a total current of	30.5	Amperes
D Forecastle	21 lights each of	16	candle power requiring a total current of	10	Amperes
E Charthouse	12 lights each of 4 off 32 & 1 off 16		candle power requiring a total current of	4	Amperes
2 Mast head light with incl.	1 lamps each of 32		candle power requiring a total current of	1.5	Amperes
2 Side light with incl.	1 lamps each of 32		candle power requiring a total current of	1.5	Amperes
5 Cargo lights of	1000		candle power, whether incandescent or arc lights	40	

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

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

DESCRIPTION OF CABLES.

Main cable carrying 125 Amperes, comprised of 37 wires, each — S.W.G. diameter, 9.5 square inches total sectional area

Branch cables carrying 30 Amperes, comprised of 1 wires, each — S.W.G. diameter, 10 square inches total sectional area

Branch cables carrying 14 Amperes, comprised of 1 wires, each — S.W.G. diameter, 6.4 2.5 square inches total sectional area

Leads to lamps carrying 6 Amperes, comprised of 1 wires, each — S.W.G. diameter, 1.5 square inches total sectional area

Cargo light cables carrying 10 Amperes, comprised of 19 wires, each — S.W.G. diameter, 2.5 square inches total sectional area

DESCRIPTION OF INSULATION, PROTECTION, ETC.

Main & Branch cables: copper tinned, coated with Para Rubber and impregnated jute tape, lead bound, spun with jute bound, double iron bound and coated with exploded jute tape.

Lamp leads: copper tinned, coated with Para rubber, spun with tape insulation.

Joints in cables, how made, insulated, and protected soldered and covered with Para rubber and tape for lamp circuits and leads, metallic screws joints in watertight 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 inaccessible

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

Tow are the cables led through the ship, and how protected Main & branch cables carried open except where they are exposed to moisture, where they are led in iron pipes. Circuit & lamp leads are protected by wood. 2021



Lloyd's Register
Foundation

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 *iron, lead, and lead-covered cables, protected by iron paper, where exposed to moisture*

What special protection has been provided for the cables near galley or oil lamps or other sources of heat *iron bound cables*

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

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

How are cables carried through beams *wood basket*

through bulkheads

covered by iron

How are cables carried through decks *iron plates and iron paper to light load*

Are any cables run through coal bunkers *no*

Are any cables run through cargo spaces *no*

Are any cables run through spaces which may be used for carrying coal, stores, etc. *no*

If so, how are they protected *—*

Are any lamps fitted in coal bunkers or spaces which may be used for carrying coal, stores, etc. *no*

If so, how are the lamp fittings and cables specially protected *—*

Where are the main switches and fuses for these lamps fitted *—*

If in the spaces, how are they specially protected *—*

Are any switches or fuses fitted in bunkers *no*

Cargo light cables, whether portable or permanently fixed *portable*

How fixed

In vessels fitted on the single wire system, how are the dynamos secured to the hull of vessel *by brass screws*

How are the returns from the lamps connected to the hull *by brass screws*

Are all the joints with the hull in accessible position *yes*

Is the installation supplied with a voltmeter *yes*

and ammeter

yes

VESSELS BUILT FOR CARRYING PETROLEUM.

In vessels built for carrying petroleum, are any switches and fuses fitted in positions not liable to the accumulation of vapours *no*

Are any switches, fuses, or joints of cables fitted in the pump room or companionway *no*

How are the lamps specially protected in places liable to the accumulation of vapours *no*

The copper used is guaranteed to have a conductivity of not less than that of the English standard copper and the wires are protected by tinning from the sulphur compounds present *no*

Insulation of cables is guaranteed to have a resistance of not less than 1000 ohms per km after 24 hours' immersion in water, the test being made after one month's storage and while the cable is still immersed *no*

The foregoing statements are a correct description of the electric lighting and power installation, and it is at this date in good order and safe working condition.

The Builders

Electrical Engineer

COMPASSES.

Distance between dynamo or electric motor and standard compass *6 ft*

from rear

Distance between dynamo or electric motor and steering compass *10 ft*

from rear

The nearest cables to the compasses are as follows:

A cable carrying *145* amperes close to *10 ft* from standard compass

A cable carrying *—* amperes *10 ft* from standard compass

A cable carrying *—* amperes *10 ft* from standard compass

Have the compasses been adjusted with and without the electric installation *yes*

The maximum deviation due to electric currents is found to be *10 degrees*

standard compass *Compass Card No. 1000*

in the case of the compasses

Schiffswerft & Maschinenbau AG

Melville

GENERAL REMARKS.

The electrical lighting installation on board of the vessel is in my opinion correct in accordance with the above regulations and eligible to be re-rated "Class first" in the Register.

TUES. 10 SEP 1924 FRI. 13 APR 1924 J. Koller
TUES. 22 SEP 1925 TUES. 10 FEB 1925

Subject to Lloyd's Register of British Ships

Committee's Minute

TUES. 17 FEB 1925

FRI. 22 MAY 1925

TUES. 6 JAN 1926

TUES. 10 FEB 1926

TUES. 23 AUG 1926

TUES. 16 NOV 1926

TUES. 13 DEC 1926

TUES. 10 FEB 1927

TUES. 10 APR 1927

TUES. 10 JUN 1927

TUES. 10 AUG 1927

TUES. 10 OCT 1927

TUES. 10 DEC 1927

TUES. 10 FEB 1928

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TUES. 10 DEC 1942

TUES. 10 FEB 1943

TUES. 10 APR 1943

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