

REPORT ON ELECTRIC LIGHTING INSTALLATION. No.

Port of Antwerp Date of First Survey 19 Nov. Date of Last Survey 1 Decemb. No. of Visits 3
 No. in 5/8 on the Iron or Steel OSTCAPPELLE Port belonging to Rotterdam
 Reg. Book 79108 Built at Vlaardingen By whom N.V. Schap. V.d. Windt When built 1921
 Owners Johan. S. Shah. The Merchant S. S. Co. Owners' Address Bombay
 Yard No. _____ Electric Light Installation fitted by T. Goedeme When fitted 1st 24

DESCRIPTION OF DYNAMO, ENGINE, ETC.

Engberg's Electric & Mechanical Works St Joseph Smit U.S.A.
 Type V-G Diameter Cyl: 4 Speed 450 Stroke 6 Dynamo 7.5 KW 110 Volts
 Capacity of Dynamo 68 Amperes at 110 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 Yes of lights, &c., as below
 Positions of auxiliary switch boards and numbers of switches on each Midschip 4 Chartroom navigation
Lights 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 No branched 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 50 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 80 arranged in the following groups:—
 A Midschip 20 lights each of 25 candle power requiring a total current of 5 Amperes
 B Forecastle 8 lights each of 25 candle power requiring a total current of 2 Amperes
 C Engine Room 11 lights each of 25 candle power requiring a total current of 3 Amperes
 D Cargo lights 20 lights each of 25 candle power requiring a total current of 5 Amperes
 E Chartroom 5 lights each of 25 candle power requiring a total current of 1.25 Amperes
1 Mast head lights with 1 lamps each of 32 carbon candle power requiring a total current of 2 Amperes
1 Side light with 1 lamps each of 32 11 candle power requiring a total current of 2 Amperes
4 Cargo lights of 5 lamps 25 candle power, whether incandescent or arc lights incandescent
 If arc lights, what protection is provided against fire, sparks, &c. _____

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

DESCRIPTION OF CABLES.

Main cable carrying 30 Amperes, comprised of 4 wires, each 0.056 S.W.G. diameter, 0.01723 square inches total sectional area
 Branch cables carrying 4.5 Amperes, comprised of 1 wires, each 0.104 S.W.G. diameter, 0.00849 square inches total sectional area
 Branch cables carrying 6 Amperes, comprised of 1 wires, each 0.104 S.W.G. diameter, 0.00849 square inches total sectional area
 Leads to lamps carrying 4 Amperes, comprised of 1 wires, each 0.104 S.W.G. diameter, 0.00849 square inches total sectional area
 Cargo light cables carrying 5 Amperes, comprised of 1 wires, each 0.104 S.W.G. diameter, 0.00849 square inches total sectional area

DESCRIPTION OF INSULATION, PROTECTION, ETC.

Wire of 1000 Mgh: in Steel tubes Soldered & insulated with para & insulation tape protected by Steel box.

Joints in cables, how made, insulated, and protected Soldered & insulated with para & insulation tape & protected by a steel box.

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 in Steel tubes



© 2020

Lloyd's Register
Foundation

003706-003711-00012

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

Steel tubes ✓

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

Steel tubes ✓

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

11 11 ✓

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

11 11 ✓

How are cables carried through beams

Steel tubes ✓

through bulkheads, &c.

11 11 ✓

How are cables carried through decks

11 11 ✓

Are any cables run through coal bunkers

Yes or cargo spaces

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

Yes ✓

If so, how are they protected

With Steel Tubes ✓

Are any lamps fitted in coal bunkers or spaces which may at times be used for cargo, coals, or baggage

no ✓

If so, how are the lamp fittings and cable terminals specially protected

11 ✓

Where are the main switches and fuses for these lights fitted

11 ✓

If in the spaces, how are they specially protected

11 ✓

Are any switches or fuses fitted in bunkers

11 ✓

Cargo light cables, whether portable or permanently fixed

permanently

How fixed

With plugs

In vessels fitted on the single wire system, how is the dynamo terminal fixed to the hull of vessel

How are the returns from the lamps connected to the hull

Are all the joints with the hull in accessible positions

Is the installation supplied with a voltmeter

Yes ✓

and with an amperemeter

Yes ✓

fixed in Switch Board

VESSELS BUILT FOR CARRYING PETROLEUM.

In vessels built for carrying petroleum, are all switches and fuses fitted in positions not liable to the accumulation of petroleum vapour or gas

Are any switches, fuses, or joints of cables fitted in the pump room or companion

How are the lamps specially protected in places liable to the accumulation of vapour or gas

The copper used is guaranteed to have a conductivity of not less than that of the Engineering Standards Committee's standard, and the wires are protected by tinning from the sulphur compounds present in the insulating material.

Insulation of cables is guaranteed to have a resistance of not less than megohms per statute mile at 60° Fahrenheit after 24 hours' immersion in water, the test being made after one minute's electrification at not less than 500 volts and while the cable is still immersed.

The foregoing statements are a correct description of the Electric Light installation fitted by us on this vessel and we declare that it is at this date in good order and safe working condition.

E. Goedemé

Electrical Engineers

Date 29/11/24

COMPASSES.

Distance between dynamo or electric motors and standard compass

80 feet

Distance between dynamo or electric motors and steering compass

The nearest cables to the compasses are as follows:—

A cable carrying	Amperes	feet from standard compass	feet from steering compass
1	8	6	
A cable carrying	Amperes	feet from standard compass	feet from steering compass
A cable carrying	Amperes	feet from standard compass	feet from steering compass

Have the compasses been adjusted with and without the electric installation at work at full power

Yes ✓

The maximum deviation due to electric currents, etc., was found to be

none

degrees on

S. H. 2°

course in the case of the

standard compass and

S. H. 2°

degrees on

S. H. 2°

course in the case of the steering compass.

Outfitter

Builder's Signature.

Date

3/12/24

GENERAL REMARKS.

The workmanship & materials are good. The installation has been fitted on board and when tried under full working condition was found satisfactory. The record of Electric Light may in my opinion be made in R. B. in the case of this vessel.

For 1140 Frames.

It is submitted that this vessel is eligible for

THE RECORD.

The light

John Thomson.

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

2m.1124-Transfer.

THE SURVEYORS ARE REQUESTED NOT TO WRITE ACROSS THIS MARGIN.



© 2020

Lloyd's Register Foundation