

REPORT ON ELECTRIC LIGHTING INSTALLATION. No. 6959.c

Port of Amsterdam Date of First Survey 19 Feb Date of Last Survey 17 April No. of Visits 7
 No. in Reg. Book on the ~~Steel~~ Steel S. J. Otis's Atrase Port belonging to Rotterdam
15 in Skips Built at Kalt Bommel By whom J. Meijers Shipbuilding Co When built 1916
 Owners Woudig & Pieters Owners' Address Rotterdam
 Yard No. 427 Electric Light Installation fitted by Groeneweld, van der Poll & Co When fitted 1916

DESCRIPTION OF DYNAMO, ENGINE, ETC.

Direct coupled dynamo

Capacity of Dynamo 35 Amperes at 110 Volts, whether continuous or alternating current Continuous
 Where is Dynamo fixed in Engine room Whether single or double wire system is used double
 Position of Main Switch Board in Engine room having switches to groups 4 of lights, &c., as below
 Positions of auxiliary switch boards and numbers of switches on each One distribution box in Engine room, One in Chartroom, One in Engine room Casing and one in midship deckhouse.

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 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 65 lamps & 3 hold lamps arranged in the following groups:—

A	17	lights each of	25	candle power requiring a total current of	4	Amperes
B	26	lights each of	25	candle power requiring a total current of	6	Amperes
C	15 } 15 }	lights each of	25 } 16 }	candle power requiring a total current of	4 } 2.5 }	Amperes
D	4 } 4 }	lights each of	32 } 8 }	candle power requiring a total current of	4 } 0.5 }	Amperes
E	4 }	lights each of	8 }	candle power requiring a total current of	0.5 }	Amperes
<u>two</u>		Mast head light with <u>One</u> lamps each of	<u>32</u>	candle power requiring a total current of	<u>2</u>	Amperes
<u>two</u>		Side light with <u>One</u> lamps each of	<u>32</u>	candle power requiring a total current of	<u>2</u>	Amperes
<u>three</u>		Cargo lights of	<u>80</u>	candle power ^{each} whether incandescent or are lights <u>Yes</u>		

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 in Chartroom, with automatic indicator controlling masts & side lights

DESCRIPTION OF CABLES.

Main cable carrying 35 Amperes, comprised of 4 wires, each 2.16 S.W.G. diameter, 25 square inches total sectional area
 Branch cables carrying 4 Amperes, comprised of 1 wires, each 2.75 S.W.G. diameter, 6 square inches total sectional area
 Branch cables carrying 4.5 Amperes, comprised of 1 wires, each 2.75 S.W.G. diameter, 6 square inches total sectional area
 Leads to lamps carrying 2.3 Amperes, comprised of 1 wires, each 1.40 S.W.G. diameter, 1 1/2 square inches total sectional area
 Cargo light cables carrying 0.70 Amperes, comprised of 1 wires, each 1.70 S.W.G. diameter, 1 1/2 square inches total sectional area

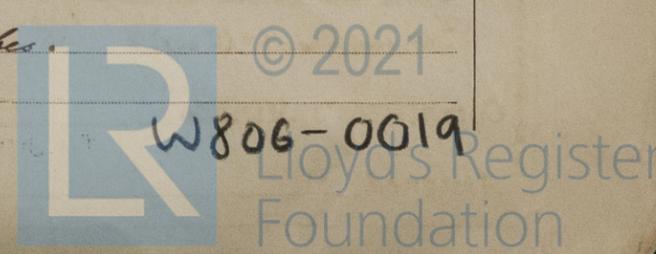
DESCRIPTION OF INSULATION, PROTECTION, ETC.

Tinned Copper wire, insulated pure and vulcanised India Rubber, Coated tape, the whole vulcanised together, galvanised iron watertight tubes in holds & deck, Armoured cables elsewhere
 Joints in cables, how made, insulated, and protected joints made in watertight junction boxes, soldered and all in accessible positions.

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 galvanised iron tubes



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 Watertight tubes

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

What special protection has been provided for the cables near boiler casings Armoured cables and tubes.

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

How are cables carried through beams through bulkheads, &c.

How are cables carried through decks by watertight plug screws.

Are any cables run through coal bunkers no or cargo spaces Yes or spaces which may be used for carrying cargo, stores, or baggage Yes

If so, how are they protected watertight tubes.

Are any lamps fitted in ~~coal~~ bunkers or spaces which may at times be used for cargo, ~~stores~~, or baggage Yes.

If so, how are the lamp fittings and cable terminals specially protected with U.T. bronze frames & glasses.

Where are the main switches and fuses for these lights fitted on auxilliary switch board

If in the spaces, how are they specially protected no

Are any switches or fuses fitted in bunkers no

Cargo light cables, whether portable or permanently fixed portable How fixed with plugs

In vessels fitted on the single wire system, how is the dynamo terminal fixed to the hull of vessel no

How are the returns from the lamps connected to the hull no

Are all the joints with the hull in accessible positions no

Is the installation supplied with a voltmeter Yes, and with an amperemeter Yes, fixed on main 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 2000 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.

G. W. W. Spill

Electrical Engineers

Date April 1916

COMPASSES.

Distance between dynamo or electric motors and standard compass 70 feet

Distance between dynamo or electric motors and steering compass 60 feet

The nearest cables to the compasses are as follows:—

A cable carrying	<u>5</u>	Amperes	<u>14</u>	feet from standard compass	<u>13</u>	feet from steering compass
A cable carrying	<u>0.3</u>	Amperes	<u>for</u>	feet from standard compass	<u>for</u>	feet from steering compass
A cable carrying	<u>no</u>	Amperes	<u>no</u>	feet from standard compass	<u>no</u>	feet from steering compass

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

The maximum deviation due to electric currents, etc., was found to be _____ degrees on _____ course in the case of the standard compass and _____ degrees on _____ course in the case of the steering compass.

J. MEYER'S SCHEEPSBOUWMAATSCHAPPIJ

J. Meyer

Builder's Signature.

Date April 1916

GENERAL REMARKS.

The Electric light installation in this vessel has been fitted in a satisfactory manner and will require to be further examined during working condition. The vessel left the Builders for Rotterdam to Complete Engine and Boilers Society's Rotterdam district Surveyors have been advised by letter of the 19 April 1916.

THE BOARD Elec. light. JWD 31/5/16

M. H. H. H.

Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

FRI. JUN. -2. 1916

THE SURVEYORS ARE REQUESTED NOT TO WRITE ACROSS THIS MARGIN.



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