

REPORT ON ELECTRIC LIGHTING INSTALLATION. No. 12555

Port of Rotterdam Date of First Survey 19 Aug Date of Last Survey 29 Sept No. of Visits 6
 No. in on the Iron or Steel M.S. "Dordrecht" Port belonging to Rotterdam
 Reg. Book Built at Rotterdam By whom Burgerhout's Mach. fab. When built 1922
 Owners Phs. v. Ommeren Owners' Address Rotterdam
 Yard No. 12555 Electric Light Installation fitted by A. de Hoop N'dam When fitted 1922

DESCRIPTION OF DYNAMO, ENGINE, ETC.

3 Direct current dynamo's, compound wound, direct coupled to Bolinder motor 325 revs. 25 K.W. 1 dynamo shunt wound d.c. to Bol. motor 600 revs. 2.5 K.W.
 Capacity of Dynamos 3 x 113, 6, 1 x 22, 7 Amperes at 220 & 110 Volts, whether continuous or alternating current continuous
 Where is Dynamo fixed in Motorroom Whether single or double wire system is used three wire
 Position of Main Switch Board near dynamo's having switches to groups 20 of lights, &c., as below
 Positions of auxiliary switch boards and numbers of switches on each
See wiring diagram No 2452

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, porcelain

Total number of lights provided for 198 arranged in the following groups :-
 A lights each of candle power requiring a total current of Amperes
 B lights each of candle power requiring a total current of Amperes
 C lights each of See diagram No 2452 candle power requiring a total current of Amperes
 D lights each of candle power requiring a total current of Amperes
 E lights each of candle power requiring a total current of 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
12 Cargo lights of 6 x 16 candle power, whether incandescent or are lights incandescent

If are lights, what protection is provided against fire, sparks, &c.
 Where are the switches controlling the masthead and side lights placed in Charroom

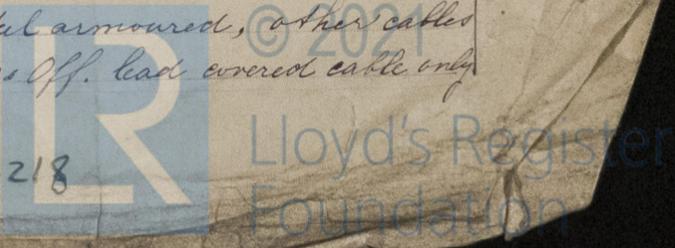
DESCRIPTION OF CABLES.

Main cable carrying Amperes, comprised of wires, each S.W.G. diameter, square inches total sectional area
 Branch cables carrying Amperes, comprised of wires, each S.W.G. diameter, square inches total sectional area
 Branch cables carrying Amperes, comprised of wires, each S.W.G. diameter, square inches total sectional area
 Leads to lamps carrying Amperes, comprised of wires, each S.W.G. diameter, square inches total sectional area
 Cargo light cables carrying Amperes, comprised of wires, each S.W.G. diameter, square inches total sectional area
See diagram No 2452

DESCRIPTION OF INSULATION, PROTECTION, ETC.

Vulcanised rubber insulated, lead covered, in screwed iron tubes & paper insulated, lead covered, steel armoured.
 Joints in cables, how made, insulated, and protected
No joints

Are all the joints of cables thoroughly soldered, and the flux used not containing acids or other corrosive substances 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
 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 Power cables lead covered, steel armoured, other cables rubber insulated in iron tubes, watertight fitted. Salvon's Off. lead covered cable only



DESCRIPTION OF INSULATION, PROTECTION

Are they in places always accessible _____
 What special protection has been provided for the cables in engine room or where exposed to heat or moisture screwed iron tubes
 What special protection has been provided for the cables near galleys or oil lamps or other sources of heat same
 What special protection has been provided for the cables near boiler casings same
 What special protection has been provided for the cables in engine room same
 How are cables carried through beams also in iron tubes through bulkheads, &c. same water tight
 How are cables carried through decks water tight
 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 by tubes and plates
 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 _____
 Where are the main switches and fuses for these lights 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 water tight 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 Main on 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 600 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.

[Signature]

Electrical Engineers

Date 22 Sept 1912

COMPASSES.

Distance between dynamo or electric motors and standard compass 22 ft
 Distance between dynamo or electric motors and steering compass 32 ft

The nearest cables to the compasses are as follows:—

A cable carrying	Amperes	feet from standard compass	feet from steering compass
<u>2.1</u>	<u>1</u>	<u>5</u>	<u>1</u>
<u>2.1</u>	<u>5</u>	<u>1</u>	<u>1</u>
<u>2.1</u>	<u>5</u>	<u>1</u>	<u>1</u>

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

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

P.P. BURGERHOUT'S MACHINEFABRIEK & SCHEEPWERF

[Signature]

Builder's Signature.

Date 10 Feb 22

GENERAL REMARKS.

The installation has been fitted in accordance with the Society's Rules has run satisfactorily during a trial and meets in my opinion the approval of the Committee

It is submitted that this vessel is eligible for THE RECORD. Elec. light.

[Signature] 27/10/12

[Signature]

[Signature]

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

22.11.20 - Transfer



© 2021

Lloyd's Register Foundation