

REPORT ON ELECTRIC LIGHTING INSTALLATION. No. 2707

Port of Frieste Date of First Survey 11/5/11 Date of Last Survey 15/6/11 No. of Visits 2
 No. in Reg. Book on the Iron or Steel Ferry Steamer N-10 Port belonging to Constantinople
 Built at Regeburg By whom Ch. Ruthorf When built 1911
 Owners Soc. de Nav. a Vapen dans la Corse Owners' Address Constantinople
 Yard No. 424 Electric Light Installation fitted by Siemens' Schuckertwerk When fitted 1911
Martin

DESCRIPTION OF DYNAMO, ENGINE, ETC.

Compound wound Aquamo geared Laval turbine!
 Capacity of Dynamo 20 Amperes at 70 Volts, whether continuous or alternating current Continuous
 Where is Dynamo fixed In Eng Room Whether single or double wire system is used Double
 Position of Main Switch Board 80 having switches to groups 4 of lights, &c., as below
 Positions of auxiliary switch boards and numbers of switches on each No auxiliary switch boards

If cut outs 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 No
 If cessel is wired on the double wire system are cut outs fitted to both flow and return wires or cables of all circuits including lamp circuits Yes
 Are the cut outs of non-oxidizable metal Yes and constructed to fuse at an excess of 100 per cent over the normal current
 Are all cut outs 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 No wires
 Are all switches and cut-outs constructed of incombustible materials and fitted on incombustible bases Yes

Total number of lights provided for 48 arranged in the following groups:—

A	<u>12</u> lights each of	<u>16</u> candle power requiring a total current of	<u>6</u> Amperes
B	<u>13</u> lights each of	<u>16</u> candle power requiring a total current of	<u>6.5</u> Amperes
C	<u>13</u> lights each of	<u>16</u> candle power requiring a total current of	<u>6.5</u> Amperes
D	<u>9</u> lights each of	<u>16</u> candle power requiring a total current of	<u>4.5</u> Amperes
E	lights each of	candle power requiring a total current of	Amperes
	<u>Forward Mast head</u> light with <u>4</u> lamps each of	<u>16</u> candle power requiring a total current	<u>Included in group C</u> Amperes
	Side light with _____ lamps each of	_____ candle power requiring a total current of	_____ Amperes
	Cargo lights of <u>60 cargo lights</u>	_____ candle power, whether incandescent or arc lights	

If arc lights, what protection is provided against fire, sparks, &c. _____
 Where are the switches controlling the masthead and side lights placed In Wheel House

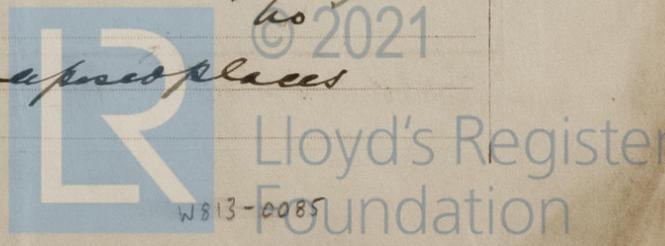
DESCRIPTION OF CABLES.

Main cable carrying 24 Amperes, comprised of 20 wires, each 17 L.S.G. diameter, .048 square inches total sectional area
 Branch cables carrying 6.5 Amperes, comprised of 1 wires, each 14/4 L.S.G. diameter, .0063 square inches total sectional area
 Branch cables carrying 4.5 Amperes, comprised of 1 wires, each 14/5 L.S.G. diameter, .0045 square inches total sectional area
 Leads to lamps carrying 2.5 Amperes, comprised of 1 wires, each 17 L.S.G. diameter, .004 square inches total sectional area
 Cargo light cables carrying _____ Amperes, comprised of _____ wires, each _____ L.S.G. diameter, _____ square inches total sectional area

DESCRIPTION OF INSULATION, PROTECTION, ETC.

the wire are first covered with a layer of pure rubber then with a layer of vulcanising india rubber then with a layer of rubber coated tape then with cotton water proof covering. Some of the cables are lead covered & armoured.
 Joints in cables, how made, insulated, and protected Joints soldered & insulated. Joints of armoured cable are in watertight boxes.

Are all the joints of cables thoroughly soldered, resin only having been used as a flux 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 wood casings in special places armoured & lead covered cables are used.



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 *Lead covered & Armoured cables fitted.*

What special protection has been provided for the cables near galleys or oil lamps or other sources of heat *Cables lead covered & armoured*

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

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

How are cables carried through beams *Scrunts where necessary* through bulkheads, &c. *Stuffing boxes.*

How are cables carried through decks *through pipes & stuffing boxes.*

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

If so, how are they protected *✓*

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 cut outs for these lights fitted *✓*

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

Are any switches or cut outs fitted in bunkers *No*

Cargo light cables, whether portable or permanently fixed *No* How fixed *✓*

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 *✓*

The installation is *Sub Bay Room* supplied with a voltmeter and an amperemeter, fixed

VESSELS BUILT FOR CARRYING PETROLEUM.

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

Are any switches, cut outs, 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 *98* per cent. that of pure copper.

Insulation of cables is guaranteed to have a resistance of not less than *600* megohms per statute mile after 24 hours' immersion in seawater.

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.

Lennus Schuchert *Huke J.B. Regensburg* Electrical Engineers Date *15. June, 1911.*

COMPASSES.

Distance between dynamo or electric motors and standard compass

Distance between dynamo or electric motors and steering compass *3 feet.*

The nearest cables to the compasses are as follows:—

A cable carrying *the* Amperes feet from standard compass *3* feet from steering compass

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 degrees on course in the case of the standard compass and degrees on *nil* course in the case of the steering compass.

Christoph Ruthof

in Vollmacht:

Builder's Signature. Date

GENERAL REMARKS.

This installation has been fitted in accordance with the Rules to my satisfaction.

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

D. Ritchie.

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

Committee's Minute

THE SURVEYORS ARE REQUESTED NOT TO WRITE ACROSS THIS MARGIN.



Lloyd's Register Foundation