

REPORT ON ELECTRIC LIGHTING INSTALLATION. No. 25632

Port of Sunderland Date of First Survey 28 Feb 13 Date of Last Survey 17 Mar 13 No. of Visits 3
 No. in Reg. Book on the Iron or Steel S. S. "Jossifoglu" Port belonging to Piraeus
 Built at Sunderland By whom A. Thompson & Sons Ltd When built 1913
 Owners Jossifoglu Owners' Address Athens
 Yard No. 248 Electric Light Installation fitted by Saleman Cross & Co When fitted 1913

DESCRIPTION OF DYNAMO, ENGINE, ETC.

5 1/2" x 5" Eng. 100 lbs 17" Press coupled direct to
5.7 Two dynamos 110 Volts 435 R.P.M.
 Capacity of Dynamo 51.8 Amperes at 110 Volts, whether continuous or alternating current Continuous
 Where is Dynamo fixed Shaking Platform Whether single or double wire system is used Double
 Position of Main Switch Board New dynamo having switches to groups A. B. C. D. of lights, &c., as below
 Positions of auxiliary switch boards and numbers of switches on each 3 Way in Cooks berth, 9 Way in Purky
5 Way in bunkroom, 8 Way in Harbour Passage, 2 Way in Plat Passage
5 - Eng. Room
 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 Yes
 Are the fuses of non-oxidizable metal Yes and constructed to fuse at an excess of 25 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 111 arranged in the following groups:—
 A Forward 11 lights each of 16 candle power requiring a total current of 5.6 Amperes
 B Midships 46 lights each of " candle power requiring a total current of 23.4 Amperes
 C Aft 34 lights each of " candle power requiring a total current of 17.2 Amperes
 D Eng. Room 20 lights each of " candle power requiring a total current of 10.1 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
5 Cargo lights of 6-16 candle power, whether incandescent or arc lights Incandescent
 If arc lights, what protection is provided against fire, sparks, &c. None
 Where are the switches controlling the masthead and side lights placed Bunkroom

DESCRIPTION OF CABLES.

Main cable carrying 51.8 Amperes, comprised of 19 wires, each 16 S.W.G. diameter, .06 square inches total sectional area
 Branch cables carrying 23.4 Amperes, comprised of 7 wires, each 16 S.W.G. diameter, .022 square inches total sectional area
 Branch cables carrying 17.2 Amperes, comprised of 7 wires, each 17 S.W.G. diameter, .017 square inches total sectional area
 Leads to lamps carrying .5 Amperes, comprised of 1 wires, each 18 S.W.G. diameter, .0018 square inches total sectional area
 Cargo light cables carrying 3 Amperes, comprised of 3 wires, each 20 S.W.G. diameter, .0032 square inches total sectional area

DESCRIPTION OF INSULATION, PROTECTION, ETC.

Insulated copper Pure Pure rubber Rules J. P. Rules typed insulated & compounded
 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 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 None
 How are the cables led through the ship, and how protected In Galv. Iron pipes



DESCRIPTION OF INSULATION, PROTECTION, ETC.—continued.

Are they in places always accessible Generally

What special protection has been provided for the cables in open alleyways or where exposed to weather or moisture None

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

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

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

How are cables carried through beams Fiber bushes through bulkheads, &c. W.I. glands

How are cables carried through decks Deck tubes

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 Iron Pipes

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 W.I. sockets

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 Main 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.

Galvanus Rowley Electrical Engineers Date 29/3/13

COMPASSES.

Distance between dynamo or electric motors and standard compass 88 ft

Distance between dynamo or electric motors and steering compass 84 "

The nearest cables to the compasses are as follows:—

A cable carrying	<u>6</u>	Amperes	<u>10</u>	feet from standard compass	<u>8</u>	feet from steering compass
A cable carrying	<u>5</u>	Amperes	<u>5</u>	feet from standard compass	<u>5</u>	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 no degrees on all course in the case of the standard compass and no degrees on all course in the case of the steering compass.

FOR ROBERT THOMPSON & SONS, LTD.

W. J. Butler Builder's Signature. Date 3rd April 1913

GENERAL REMARKS.

This installation is well fitted & ran satisfactorily on trial under full load

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

J.W.D.
4.4.13

William Butler

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

Committee's Minute



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THE SURVEYORS ARE REQUESTED NOT TO WRITE ACROSS THIS MARGIN.

5006, 12.—Transistor.