

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 15" 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 Pantry
5 Way in Blackroom, 8 Way in Stairboard Passage, 2 Way in Port 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.

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

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

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 Yes

How are the cables led through the ship, and how protected In Galv. Iron pipes



© 2020

Lloyd's Register
Foundation

460-0100

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 Fibre bushes through bulkheads, &c. W. I. glands

How are cables carried through decks Leak 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. glands

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.

G. J. J. J. J. 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	Amperes	feet from standard compass	feet from steering compass
6	10	8	8
5	5	5	5

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.

C. M. J. J.

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.
14. 4. 13.

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

Committee's Minute



© 2020

Lloyd's Register Foundation

THE SURVEYORS ARE REQUESTED NOT TO WRITE ACROSS THIS MARGIN.