

REPORT ON ELECTRIC LIGHTING INSTALLATION. No. 3182.

Port of Dublin Date of First Survey 17 July Date of Last Survey 29th July No. of Visits 5
No. in on the SS Wheattlands Port belonging to Cardiff
Reg. Book Built at Dublin By whom Dublin Dockyard Co When built 1912.
Owners Spillers & Bakers Ltd Owners' Address Cardiff
Yard No. 77 Electric Light Installation fitted by Frank G. Sherwood Dublin When fitted 1912.

DESCRIPTION OF DYNAMO, ENGINE, ETC.

Direct coupled vertical steam engine & multipolar dynamo
by Messrs The Sunderland Forge Co Ltd
Capacity of Dynamo 3.5 Kilowatts Amperes at 110 Volts, whether continuous or alternating current continuous
Where is Dynamo fixed Engine Room
Position of Main Switch Board " having switches to groups 4 circuits - a total of 50 lights, &c., as below
Positions of auxiliary switch boards and numbers of switches on each 20 auxiliary switch boards - auxiliary fuse
boxes in the following positions A Engine Room B Captain's Room - Amidships
C Fore-castle D Signal light circuit E aft accommodation
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 yes
If vessel 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 yes
Are all switches and cut-outs constructed of incombustible materials and fitted on incombustible bases yes
Total number of lights provided for 50 arranged in the following groups :-

A	10	lights each of	16	candle power requiring a total current of	5.5	Amperes
B	19	lights each of	16	candle power requiring a total current of	10.3	Amperes
C	8	lights each of	16	candle power requiring a total current of	4.5	Amperes
D	6	lights each of	32	candle power requiring a total current of	5.5	Amperes
E	11	lights each of	16	candle power requiring a total current of	6.0	Amperes
1	Mast head light with	1 lamps each of	32	candle power requiring a total current of		Amperes
2	Side light with	1 lamps each of	32	candle power requiring a total current of		Amperes
4	Cargo lights of	6 16 CP each cluster		candle power, whether incandescent or arc lights	Incandescent	

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 chart room

DESCRIPTION OF CABLES.

Main cable carrying 33 Amperes, comprised of 7 wires, each 14^S L.S.G. diameter, .034 square inches total sectional area
Branch cables carrying 10 Amperes, comprised of 7 wires, each 20 L.S.G. diameter, .007 square inches total sectional area
Branch cables carrying 6 Amperes, comprised of 7 wires, each 22 L.S.G. diameter, .004 square inches total sectional area
Leads to lamps carrying 3 Amperes, comprised of 3 wires, each 20 L.S.G. diameter, .003 square inches total sectional area
Cargo light cables carrying 3.5 Amperes, comprised of 113 wires, each 38^S L.S.G. diameter, flexible square inches total sectional area

DESCRIPTION OF INSULATION, PROTECTION, ETC.

800 megohm grade (2500 Test) vulcanized cable - braided & compounded
- wrapped taped & lead covered overall in accommodation

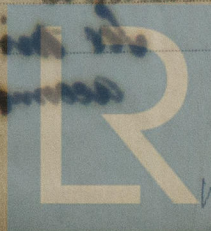
Joints in cables, how made, insulated, and protected

no joints

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

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 galvanized screwed conduit



© 2020

Lloyd's Register
W1641-0049
Foundation

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 covering

What special protection has been provided for the cables near galleys or oil lamps or other sources of heat lead covering + secured G.B.

What special protection has been provided for the cables near boiler casings secured gun barrel

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

How are cables carried through beams gun barrel clipped there through bulkheads, &c. W.T glands

How are cables carried through decks Deck Luths

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 gun barrel

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 ="

Cargo light cables, whether portable or permanently fixed Portable How fixed W.T Plug

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 ="

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 installation is supplied with a voltmeter and an amperemeter, fixed

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 800 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.

J. G. Sherwood

Electrical Engineers

Date 1/8/12

COMPASSES.

Distance between dynamo or electric motors and standard compass

Distance between dynamo or electric motors and steering compass

The nearest cables to the compasses are as follows:—

A cable carrying	Amperes	feet from standard compass	feet from steering compass
<u>10</u>	<u>20</u>		
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

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.

The Dublin Dockyard Co.

Builder's Signature.

Date

Sep. 16th 1912.

GENERAL REMARKS.

To Complete - The E & B spaces are to fit up in Glasgow, & all to the satisfaction of the Surveyors at that Port.

Macwilliam

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

Committee's Minute

GLASGOW

24 SEP. 1912

See minute on accompanying Gls. rpt.



© 2020

Lloyd's Register Foundation

THE SURVEYORS ARE REQUESTED NOT TO WRITE ACROSS THIS MARGIN.