

REPORT ON ELECTRIC LIGHTING INSTALLATION. No. 3653.

Port of Middlesbrough Date of First Survey 24th July Date of Last Survey Augth 1903 No. of Visits five
 No. in Reg. Book on the Iron or Steel S.S. Carol 1st Port belonging to Dunkirk
 Built at Middlesbrough By whom Sir R. Dixon & Co. Ltd When built 1903-8
 Owners L. Dreyfus & Co Owners' Address Paris
 Yard No. 500 Electric Light Installation fitted by Messrs J.H. Holmes & Co When fitted Aug/93

DESCRIPTION OF DYNAMO, ENGINE, ETC.

One 5 1/2" x 5" Foster engine auto expansion for 75 lbs per sq in
coupled to one No 10 dynamo Gramme path compound wound by J.H. Holmes & Co
 Capacity of Dynamo 40 Amperes at 65 Volts, whether continuous or alternating current continuous
 Where is Dynamo fixed new dynamo in engine room
 Position of Main Switch Board new dynamo having switches to groups A & B of lights, &c., as below
 Positions of auxiliary switch boards and numbers of switches on each 1-4 way of box fwd: 1-4 way of box aft.

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 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 50 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 37 arranged in the following groups:—
 A fwd 21 lights each of 16 candle power requiring a total current of 19 Amperes
 B aft 16 lights each of " " candle power requiring a total current of 16 Amperes
 C _____ lights each of _____ 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
 Mast head light with _____ lamps each of _____ candle power requiring a total current of _____ Amperes
 Side light with _____ lamps each of _____ candle power requiring a total current of _____ Amperes
5 Cargo lights of 6 x 16 candle power, whether incandescent or arc lights incand

If arc lights, what protection is provided against fire, sparks, &c.

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

DESCRIPTION OF CABLES.

Main cable carrying 34 Amperes, comprised of 19 wires, each 18 L.S.G. diameter, .034 square inches total sectional area
 Branch cables carrying 19 Amperes, comprised of 7 wires, each 16 L.S.G. diameter, .0223 square inches total sectional area
 Branch cables carrying 16 Amperes, comprised of 7 wires, each 17 L.S.G. diameter, .0170 square inches total sectional area
 Leads to lamps carrying 9 Amperes, comprised of 3 wires, each 22 L.S.G. diameter, .0018 square inches total sectional area
 Cargo light cables carrying 6 Amperes, comprised of 7 wires, each 20 L.S.G. diameter, .0072 square inches total sectional area

DESCRIPTION OF INSULATION, PROTECTION, ETC.

Tule & taped & braided

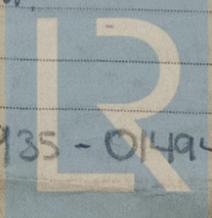
Joints in cables, how made, insulated, and protected

spliced soldered and insulated and protected by approved rubber tapes etc

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 Iron pipes



© 2021

014935 - 014945 - 0212

Lloyd's Register Foundation

DESCRIPTION OF INSULATION, PROTECTION, ETC.—continued.

Are they in places always accessible yes when cargo is out.

What special protection has been provided for the cables in open alleyways or where exposed to weather or moisture iron pipes

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

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

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

How are cables carried through beams _____ through bulkheads, &c. _____

How are cables carried through decks iron pipe

Are any cables run through coal bunkers yes or cargo spaces _____ or spaces which may be used for carrying cargo, stores, or baggage _____

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 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 _____

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 not an amperemeter, fixed on main rd.

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.

FOR J. H. HOLMES & CO

J. Sambidge

Electrical Engineers

Date 5-10-03

JH

COMPASSES.

Distance between dynamo or electric motors and standard compass 46'-0"

Distance between dynamo or electric motors and steering compass 40'-0"

The nearest cables to the compasses are as follows:—

A cable carrying <u>22</u> Amperes	<u>20</u> feet from standard compass	<u>16</u> feet from steering compass
A cable carrying <u>12</u> Amperes	<u>17</u> feet from standard compass	<u>14</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 _____

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.

Builder's Signature. Date _____

[Signature]

GENERAL REMARKS.

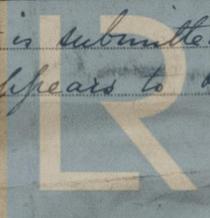
This installation is for cargo purposes only, and has been fitted under special survey. The materials & workmanship are good and efficient.

R. D. Skilston

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

Committee's Minute _____

It is submitted that this installation appears to be satisfactory.



Lloyd's Register Foundation

16.10.03

THE SURVEYORS ARE REQUESTED NOT TO WRITE ACROSS THIS MARGIN.

REPORT FORM No. 1.