

REPORT ON ELECTRIC LIGHTING INSTALLATION. No. 27235

Port of SUNDERLAND Date of First Survey 30 Apr Date of Last Survey 3 May 18 No. of Visits 3
 No. in Reg. Book on the Iron or Steel S.S. WAR WAGER Port belonging to London
 Built at SUNDERLAND By whom J. L. Thompson When built 1918
 Owners Shipping Controller Owners' Address _____
 Yard No. 530 Electric Light Installation fitted by The Sunderland Forge & Eng. Co. Ltd. When fitted 1918

DESCRIPTION OF DYNAMO, ENGINE, ETC.

One Combined Plant - consisting of single cylinder open type Engine 7.5 - 360 pers - 100 lbs
Steam, coupled to compound wound multipolar dynamo - both by S.F.E.C.

Capacity of Dynamo 100 Amperes at 100 Volts, whether continuous or alternating current continuous

Where is Dynamo fixed Eng. Rm. - Bottom Plaft - Starboard Whether single or double wire system is used double

Position of Main Switch Board Close to dynamo having switches to groups five of lights, &c., as below

Positions of auxiliary switch boards and numbers of switches on each eight switches - controlling navigation lights
- Morse light - Telegraph Compasses in Wheelhouse.

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 100 per cent over the normal current

Are all fuses fitted in easily accessible positions Yes Are the fuses of standard dimensions No 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 166 arranged in the following groups:—

A Cabin & Crew = 84 lights each of 50 of 16 cp Carbon candle power requiring a total current of 34.8 Amperes

B Cargo = 30 lights each of 16 cp Carbon candle power requiring a total current of 16.8 Amperes

C E & B Rms = 32 lights each of " candle power requiring a total current of 17.9 Amperes

D Navigation = 20 lights each of 14 of 16 cp Carbon candle power requiring a total current of 9.1 Amperes

E Wireless = — lights each of — candle power requiring a total current of 15 Amperes

1 Mast head light with 1 lamps each of 32 candle power requiring a total current of 1.12 Amperes

2 Side light with 1 lamps each of 32 candle power requiring a total current of 2.24 Amperes

5 Cargo lights of Six - 16 candle power, whether incandescent or arc lights incandescent

If arc lights, what protection is provided against fire, sparks, &c. None fitted

Where are the switches controlling the masthead and side lights placed in Wheelhouse

DESCRIPTION OF CABLES.

Main cable carrying 100 Amperes, comprised of 19 wires, each 14 S.W.G. diameter, .094 square inches total sectional area

Branch cables carrying 34.8 Amperes, comprised of 7 wires, each 16 S.W.G. diameter, .022 square inches total sectional area

Branch cables carrying 16.8 Amperes, comprised of 7 wires, each 18 S.W.G. diameter, .0125 square inches total sectional area

Leads to lamps carrying 2.5 Amperes, comprised of 7 wires, each 25 S.W.G. diameter, .0022 square inches total sectional area

Cargo light cables carrying 3.5 Amperes, comprised of 7 wires, each 21½ S.W.G. diameter, .0049 square inches total sectional area

DESCRIPTION OF INSULATION, PROTECTION, ETC.

Mains:— Rare & Vulcanized - taped & Vulcanized - then Braided & Compounded

Accomm. Spaces:— Do " Lead covered

Machinery:— Do " Lead covered & Armoured

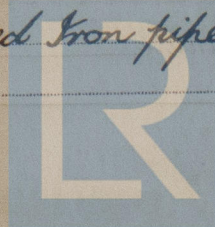
Joints in cables, how made, insulated, and protected

None

Are all the joints of cables thoroughly soldered, and the flux used not containing acids or other corrosive substances — 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 V.I.R. cable in Galvanized Iron pipe run under Bulwark rail.



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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

V.I.R. Cable run in Galv. Iron pipe

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

Lead Covered & Armoured

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

holes lashed with fibre

through bulkheads, &c. W.T. Glands.

How are cables carried through decks

W.T. 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

V.I.R. cable run in Iron pipe

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

—

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 on Main Switchboard

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

Yes

Are any switches, fuses, or joints of cables fitted in the pump room or companion

No

How are the lamps specially protected in places liable to the accumulation of vapour or gas

Gaslight guarded fittings

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.

Electrical Engineers

Date *23rd MAY 1918*

COMPASSES.

Distance between dynamo or electric motors and standard compass

about 106 feet

Distance between dynamo or electric motors and steering compass

" 104 "

The nearest cables to the compasses are as follows:—

A cable carrying

9.1

Amperes

8

feet from standard compass

14

feet from steering compass

A cable carrying

.56

Amperes

led into

feet from standard compass

7

feet from steering compass

A cable carrying

.56

Amperes

7

feet from standard compass

led into

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

nil

degrees on

nil

course in the case of the

standard compass and

nil

degrees on

nil

course in the case of the steering compass.

Builder's Signature.

Date

28/5/18

GENERAL REMARKS.

The installation has been satisfactorily fitted in the vessel; tested at full load and found good.

It is submitted that this vessel is eligible for

THE RECORD. Elec. light.

J.W.D. 3/6/18.

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

Committee's Minute



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