

REPORT ON ELECTRIC LIGHTING INSTALLATION. No. 41575.

Port of Glasgow Date of First Survey 9-12-20 Date of Last Survey 9-12-21 No. of Visits 19
 No. in Reg. Book 370228 on the Steel M.V. DOMALA Port belonging to Glasgow
 Built at Whiteinch By whom Messrs Barclay Curle & Co When built 1921
 Owners The Brit. Ind. St. Nav. Co Ltd. Owners' Address
 Yard No. 579 Electric Light Installation fitted by Messrs Siemens Ltd. When fitted 1921

DESCRIPTION OF DYNAMO, ENGINE, ETC.

TOTAL KW - 490.

2-215 KW Compound vertical Main Generators by W.H. Allen,
direct coupled to 2- Diesel Engines by N.B. Diesel Co.

Capacity of Dynamo 2-980, 1-192, 1-78 Amperes at 220 Volts, whether continuous or alternating current Continuous
 Where is Dynamo fixed Engine Rm platform Whether single or double wire system is used Double
 Position of Main Switch Board Engine Rm platform having switches to groups As per list sheet of lights, etc., as below
 Positions of auxiliary switch boards and numbers of switches on each Alongside Main Switchboard + in
emergency engine house.

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 cessel 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 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

Total number of lights provided for 685+3 Plugs arranged in the following groups :-

	lights each of	candle power requiring a total current of	Amperes
A			
B			
C			
D			
E			

2	Mast head lights with 1 lamp each of	32	candle power requiring a total current of	58	Amperes
2	Side lights with 1 lamp each of	32	candle power requiring a total current of	58	Amperes

48 in. diameter of 8 } Cargo lights of 30 watt or 25
to large lanterns } 1000 " " 2000 candle power, whether incandescent or arc lights Incandescent

If arc lights, what protection is provided against fire, sparks, &c. no arc lamps fitted.

Where are the switches controlling the masthead and side lights placed In wheel house. (Navigation St. Indicator)

DESCRIPTION OF CABLES.

	Amperes, comprised of	wires, each	S.W.G. diameter,	square inches total sectional area
Main cable carrying				
Branch cables carrying				
Branch cables carrying				
Leads to lamps carrying				
Cargo light cables carrying				

DESCRIPTION OF INSULATION, PROTECTION, ETC.

All cables are insulated with pure rubber, vulcanised rubber +
vulcanised tape, protected with lead covers, + also armour where
necessary, + braided.

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 no

How are the cables led through the ship, and how protected Clipped to under side of decks, on trays + beams.

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 covered & armoured in galvanised iron tubing

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

Lead

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

Lead covered & armoured

How are cables carried through beams

Bushed holes

through bulkheads, &c. Waterlight standards

How are cables carried through decks

through 18" Deck Tubes

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

no

or cargo spaces

no

or spaces which may be used for carrying cargo, stores, or baggage

yes

If so, how are they protected

by Beams & lead covering

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 10 ft. Junction box

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

3

and with an amperemeter

yes

5

fixed on Switch 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 2500 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.

FOR BROTHERS & CO. LIMITED,

MARINE DEPARTMENT.

Electrical Engineers

Date

5/1/22

COMPASSES.

Distance between dynamo or electric motors and standard compass

150 feet

Distance between dynamo or electric motors and steering compass

140 feet

The nearest cables to the compasses are as follows:—

A cable carrying	Amperes	feet from standard compass	feet from steering compass
4.5	15	12	
3	in	in	
		feet from standard compass	feet from steering compass
		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

nil

degrees on

any

course in the case of the

standard compass and

degrees on

any

course in the case of the steering compass.

Builder's Signature

Date

9th July 1922

GENERAL REMARKS.

This installation has been fitted on board under special survey. Tested under full working conditions and found satisfactory.

FRK. F43-16.0

d/c 15/12/21

L. G.

J. S. Raukin.

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

GLASGOW 17 JAN 1922

Elec. Light



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THE SURVEYORS ARE REQUESTED NOT TO WRITE ACROSS THIS MARGIN.

MAIN

Do

AUXIL

EME

CYLIND

BALL

OIL F

BILG

WARF

2. DE

WIN

2. DEC

LUBR

HOT S

FRES

ENGIN

HOT W

HOT P

HOT W

GALL

TOSTER

POTAT

WORKS

ENGINE

CLAY

BOA

PROJ

CABIN

4. DEGR

4 D

CYLIND

PISTON

LUBR

2ND SAL

1ST D

STEER

EMERGE

CARGO

ENGINE

BILGE

SANIT