Rpt. 13.

REC'D NEW YORK Nov. 1-1918.

Received at London Office THU. 28 NOV. 1918

REPORT ON ELECTRIC LIGHTING INSTALLATION. No. 1612

Port of Montreal. Date of First Survey Aug. 26 Date of Last Survey Oct. 15 No. of Visits 9

No. in Reg. Book ____ on the ~~Iron or~~ Steel S. S. "War Faith" Port belonging to Montreal

Built at Montreal By whom Canadian Vickers Ltd. When built 1918

Owners Imperial Munitions Board Owners' Address Ottawa. Ont.

Yard No. 64 Electric Light Installation fitted by Canadian Vickers Ltd. When fitted 1918

DESCRIPTION OF DYNAMO, ENGINE, ETC.

1- 10 K.W. direct coupled generating set of Vickers-Goldie McCulloch manufacture. Enclosed forced lubrication engine.

Capacity of Dynamo 91 ✓ Amperes at 110 ✓ Volts, whether continuous or alternating current Continuous. ✓

Where is Dynamo fixed Engine Room bottom platform Whether single or double wire system is used Double ✓

Position of Main Switch Board " " " " having switches to groups A. B. C & D. of lights, &c., as below

Positions of auxiliary switch boards and numbers of switches on each No auxiliary switch boards. Fused distribution boxes. One in Eng. Room. 10 way double feeder. One in Officers Pantry. One in Engineers Pantry. One in Chart House. One in Crew's quarters aft: All 10 way.

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 ✓ 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 ____

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 Cartridge Fuses.

Are all switches and fuses constructed of incombustible materials and fitted on incombustible bases Yes

Total number of lights provided for 157 arranged in the following groups :—

A Eng & Boiler Rooms 40 lights each of 5-16cp. 2-32cp. 33-40 ~~candle power~~ Watt requiring a total current of 16.75 Amperes

B Forward Accom" 45 lights each of 3-15 Watt 8-25 Watt 34 ~~candle power~~ 40 Watt requiring a total current of 14.9 Amperes

C Navigating 20 lights each of 6-2½ cp. 2-5cp 6-8cp 4-10 Watt, 2-40 Watt ~~candle power~~ requiring a total current of 3.5 Amperes

D After Accom" 21 lights each of 1-16 cp. 5-25 Watt 15-40 Watt ~~candle power~~ requiring a total current of 7.13 Amperes

E Cargo spaces & Holds 31 lights each of 32 candle power requiring a total current of 32.4 Amperes

1 Mast head light with 1 lamps each of 2½ candle power requiring a total current of .08 Amperes

2 Side light with 1 lamps each of 5 candle power requiring a total current of .35 Amperes

5 Cargo lights of 5-32 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 Inside Chart House on Navigating Tell Tale.

DESCRIPTION OF CABLES.

Main cable carrying 90-100 ✓ Amperes, comprised of 19 wires, each #00 B&S ~~S.W.G.~~ diameter, .1044 ✓ square inches total sectional area

Branch cables carrying ____ Amperes, comprised of 7 wires, each #10 ~~S.W.G.~~ diameter, .0081 square inches total sectional area

Branch cables carrying ____ Amperes, comprised of 7 wires, each #8 ~~S.W.G.~~ diameter, .0129 square inches total sectional area

Leads to lamps carrying ____ Amperes, comprised of 7 wires, each #14 ~~S.W.G.~~ diameter, .0032 square inches total sectional area

Cargo light cables carrying 35 Amperes, comprised of 7 wires, each #6 ~~S.W.G.~~ diameter, .0206 ✓ square inches total sectional area

DESCRIPTION OF INSULATION, PROTECTION, ETC.

Rubber insulated, lead covered in Accommodation spaces, Rubber insulated, lead covered and steel wire braided in Machinery spaces.

Joints in cables, how made, insulated, and protected No joints. All connections in make light boxes & special terminal blocks.

Are all the joints of cables thoroughly soldered, and the flux used not containing acids or other corrosive substances No acid flux used. 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 None.

How are the cables led through the ship, and how protected Securely clipped to bulkheads or metal casing & grounds.

DESCRIPTION OF INSULATION, PROTECTION, ETC.—continued.

Are they in places always accessible Yes with exception of a short length under the bridge deck

What special protection has been provided for the cables in open alleyways or where exposed to weather or moisture All lead covered

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

What special protection has been provided for the cables near boiler casings Lead covered.

What special protection has been provided for the cables in engine room Lead covered and armoured.

How are cables carried through beams Through lead bushes through bulkheads, &c. W. T. glands ✓

How are cables carried through decks Through 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 Lead covered and armoured and steel steel casings.

Are any lamps fitted in coal bunkers or spaces which may at times be used for cargo, coals, or baggage Yes

If so, how are the lamp fittings and cable terminals specially protected Special fixtures with cast guards.

Where are the main switches and fuses for these lights fitted On main switch board in Engine Room

If in the spaces, how are they specially protected ✓

Are any switches or fuses fitted in bunkers Yes. Two W.T. switches

Cargo light cables, whether portable or permanently fixed Sockets permanently fixed How fixed W.T. switch for portable leads below

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 Switch Boa

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 standar 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 350 megohms per statute mile at 60° Farhenhe after 24 hours' immersion in water, the test being made after one minute's electrification at not less than 500 volt 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 decla that it is at this date in good order and safe working condition.

FOR CANADIAN VICKERS LIMITED
J. R. Miller
General Manager.
Electrical Engineers Date

COMPASSES.

Distance between dynamo or electric motors and standard compass 120 feet

Distance between dynamo or electric motors and steering compass 100 feet

The nearest cables to the compasses are as follows:—

A cable carrying ... Amperes ... feet from standard compass ... feet from steering compe

A cable carrying ... Amperes ... feet from standard compass ... feet from steering compe

A cable carrying ... Amperes ... feet from standard compass ... feet from steering compe

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 t standard compass and ... degrees on ... course in the case of the steering compass.

FOR CANADIAN VICKERS LIMITED
J. R. Miller
General Manager.
Builder's Signature. Date

GENERAL REMARKS. The compass is lighted by an electric lamp. Feed wires are run and clipped together. The materials & workmanship of this installation are good. The whole has been fitted on board and tried out under full working conditions with satisfactory results

It is submitted that this vessel is eligible for THE RECORD. Elec. light.

J.W.R. 3/12/18.

FRI. 6 DEC. 1918

W. J. Alderson
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

5c,8,17.—Transfer.

Template

VESS

These particulars

gnal Letters (if any

Official Number.

142734

o., Date, and Port of Pre

hether British or Foreign Built. | Whe and i

British

umber of Decks
umber of Masts
igged
ern
uild
alleries
ead
amework and descrip
vessel
umber of Bulkheads
umber of water ballast
and their capacity in

al to quarter the depth from we to bottom of keel

of s of ines. | Description of Engin

Triple Expansi

Particulars of Boil
Description Scotch
Number
Iron or Steel
Loaded Pressure 180

Gross To

nder Tonnage Deck
pace or spaces between
urret or Trunk
orecastle
ridge space
oop or Break
ide Houses
eck Houses
hart House
paces for machinery, an
Section 78 (2) of the M 1894
xcess of Hatchways

Gross Tonnage
eductions, as per Contr
Registered Ton

OTE 1.—The tonnage of the Deck for propellin

OTE 2.—The undermentione

Name of Master

o. of Owners
ame, Residence, and

His
A

Dated 5 Dec

(74343) Wt. 19793/74 20