

TUE. 22 MAR. 1921

REPORT ON ELECTRIC LIGHTING INSTALLATION, No. 3462.

Port of SAN FRANCISCO. Date of First Survey 19th JAN 1921 Date of Last Survey 12th FEB 1921 No. of Visits 0
 No. in on the Iron or Steel S.S. "GARGOYLE" Port belonging to New York
 Reg. Book: Built at Oakland, California. By whom Moore Shipbuilding Co. When built 1921.
 Owners Vacuum Oil Company Owners' Address New York
 Yard No. 164 Electric Light Installation fitted by NePage McKenny Company When fitted 1921

DESCRIPTION OF DYNAMO, ENGINE, ETC.

2 G.E. reciprocating engine driven generator sets. 15 K.W. each.

Capacity of Dynamo 120 Amperes at 125 Volts, whether continuous or alternating current D.C.
 Where is Dynamo fixed Dynamo flat, Engine Room Whether single or double wire system is used Double
 Position of Main Switch Board Dynamo flat, Engine Room having switches to groups A-B-C-D. of lights, &c., as below
 Positions of auxiliary switch boards and numbers of switches on each A-1 12 cir. amidships. B-4 cir. in forecastle
C-1 8 cir. after quarters. D. 1-cir. Engine Room.

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-oxidisable metal Yes and constructed to fuse at an excess of 10% 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 -
 Are all switches and fuses constructed of incombustible materials and fitted on incombustible bases Yes

Total number of lights provided for 280 arranged in the following groups :-

A	82	lights each of	25 and 40 W.	candle power requiring a total current of	48	Amperes
B	28	lights each of	25 " 40 W.	candle power requiring a total current of	10	Amperes
C	100	lights each of	25 " 40 W.	candle power requiring a total current of	32	Amperes
D	70	lights each of	40 W.	candle power requiring a total current of	23	Amperes
E		lights each of		candle power requiring a total current of		Amperes
2		Mast head light with	2 lamps each of	32	candle power requiring a total current of	2
2		Side light with	2 lamps each of	32	candle power requiring a total current of	2
3		Cargo lights of	240 Watts	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 Pilot House

DESCRIPTION OF CABLES.

	Main cable carrying	120	Amperes, comprised of	#19	wires, each	.348	S.W.G. diameter,	.105	square inches total sectional area
A	Branch cables carrying	28	Amperes, comprised of	#7	wires, each	.232	S.W.G. diameter,	.0328	square inches total sectional area
B	Branch cables carrying	10	Amperes, comprised of	#7	wires, each	.192	S.W.G. diameter,	.0206	square inches total sectional area
C	Leads to lamps carrying	32	Amperes, comprised of	#7	wires, each	.192	S.W.G. diameter,	.0206	square inches total sectional area
D	Cargo light cables carrying	23	Amperes, comprised of	#7	wires, each	.165	S.W.G. diameter,	.0130	square inches total sectional area

DESCRIPTION OF INSULATION, PROTECTION, ETC.

All feeders D.B. R.C. stranded. Branch circuits D.B. R.C.

Joints in cables, how made, insulated, and protected Soldered, Okonite and friction tape, painted. All joints in junction boxes.

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 Conduit



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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 **Conduit**

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

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

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

How are cables carried through beams **Conduit** through bulkheads, &c. **Conduit thru stuffing tube.**

How are cables carried through decks **Conduit thru stuffing tube.**

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 **Conduit**

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 **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 **Yes**

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 **Vapour proof globes**

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.

McPage, McTenny Co. Electrical Engineers Date **2-23-21**

COMPASSES.

Distance between dynamo or electric motors and standard compass **50**

Distance between dynamo or electric motors and steering compass **50**

The nearest cables to the compasses are as follows:—

A cable carrying 7 Amperes 50 feet from standard compass 42 feet from steering compass
A cable carrying 1/2 Amperes 1 feet from standard compass 1 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 **Yes**

The maximum deviation due to electric currents, etc., was found to be **Nil** degrees on **every** course in the case of the standard compass and **Nil** degrees on **every** course in the case of the steering compass.

Mon Sheppard & Co Builder's Signature. Date

GENERAL REMARKS. This installation has been fitted in accordance with the Rules, tested under working condition and found in order and the vessel is eligible, in my opinion, to have notation of "Electric Light" in the Register Book.

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

Fee \$225⁰⁰ applied for Mar. 1st, 1921.

W. H. Smith
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Elec Lt New York MAR - 8 1921



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