

## REPORT ON ELECTRIC LIGHTING INSTALLATION.

No. 4585

Port of *Philadelphia* Date of First Survey *Oct 10<sup>th</sup> 1921* Date of Last Survey *Nov 24<sup>th</sup>* No. of Visits *14*.  
 No. in Reg. Book on the ~~Steel~~ *Screw Steam* *DIXIE ARROW* Port belonging to *New York*.  
 Built at *Camden N. J.* By whom *New York Ship Corp.* When built *1921*.  
 Owners *Standard Transportation Co.* Owners' Address *New York*  
 Yard No. *266* Electric Light Installation fitted by *New York Ship Corp.* When fitted *1921*.

## DESCRIPTION OF DYNAMO, ENGINE, ETC.

Two - 20 K.W. Single vertical Marine Engines. Direct coupled

Capacity of Dynamo *182* Amperes at *110*. Volts, whether continuous or alternating current *Direct*  
 Where is Dynamo fixed *Eng room gallery, aft.* Whether single or double wire system is used *Double*  
 Position of Main Switch Board *Between Generators* having switches to groups of lights, &c., as below  
 Positions of auxiliary switch boards and numbers of switches on each *(A) Eng room (10) (B) Boiler room (10) (C) Upper deck (10) (D) Pump room (10) (E) Shelter deck (10) (F) Shelter deck (10) (G) Shelter deck (10) (H) Shelter deck (10) (I) Shelter deck (10) (J) Shelter deck (10) (K) Shelter deck (10) (L) Shelter deck (10) (M) Shelter deck (10) (N) Shelter deck (10) (O) Shelter deck (10) (P) Shelter deck (10) (Q) Shelter deck (10) (R) Shelter deck (10) (S) Shelter deck (10) (T) Shelter deck (10) (U) Shelter deck (10) (V) Shelter deck (10) (W) Shelter deck (10) (X) Shelter deck (10) (Y) Shelter deck (10) (Z) Shelter deck (10) (AA) Shelter deck (10) (AB) Shelter deck (10) (AC) Shelter deck (10) (AD) Shelter deck (10) (AE) Shelter deck (10) (AF) Shelter deck (10) (AG) Shelter deck (10) (AH) Shelter deck (10) (AI) Shelter deck (10) (AJ) Shelter deck (10) (AK) Shelter deck (10) (AL) Shelter deck (10) (AM) Shelter deck (10) (AN) Shelter deck (10) (AO) Shelter deck (10) (AP) Shelter deck (10) 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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 *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 *Cartridge fuses*  
 Are all switches and fuses constructed of incombustible materials and fitted on incombustible bases *yes*  
 Total number of lights provided for *288* arranged in the following groups:—  
 A *43* lights each of *40 WATTS* candle power requiring a total current of *15.4* Amperes  
 B *34* lights each of " candle power requiring a total current of *14.8* Amperes  
 C *27* lights each of " candle power requiring a total current of *12.2* Amperes  
 D *51* lights each of " candle power requiring a total current of *18.3* Amperes  
 E *27* lights each of " candle power requiring a total current of *9.7* Amperes  
 2 Mast head light with *1* lamps each of candle power requiring a total current of *1* Amperes  
 2 Side light with *1* lamps each of candle power requiring a total current of *1* Amperes  
 131-8700 Cargo lights of *16* candle power, whether incandescent or arc lights *Incandescent*  
 If arc lights, what protection is provided against fire, sparks, &c. *No arc lights*

Where are the switches controlling the masthead and side lights placed *Tell tale panel - Pilot house*

## DESCRIPTION OF CABLES.

Main cable carrying *181* Amperes, comprised of *6/16* wires, each *.0032* S.W.G. diameter, *.1962* square inches total sectional area  
 Branch cables carrying *35* Amperes, comprised of *7/17* wires, each *.0025* S.W.G. diameter, *.0178* square inches total sectional area  
 Branch cables carrying *15.4* Amperes, comprised of *7/20* wires, each *.0010* S.W.G. diameter, *.0071* square inches total sectional area  
 Leads to lamps carrying *.5* Amperes, comprised of *7/23* wires, each *.0004* S.W.G. diameter, *.0034* square inches total sectional area  
 Cargo light cables carrying *4.32* Amperes, comprised of *7/23* wires, each *.0004* S.W.G. diameter, *.0034* square inches total sectional area

## DESCRIPTION OF INSULATION, PROTECTION, ETC.

*Mechanical joints throughout, protected from chemical action and mechanical injury by conduit piping & own covering*  
 Joints in cables, how made, insulated, and protected

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 piping*



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Lloyd's Register  
Foundation

W 164-0238



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 piping*

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

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

What special protection has been provided for the cables in engine room *As above.*

How are cables carried through beams *Conduit* through bulkheads, &c. *Watertight glands.*

How are cables carried through decks *As above.*

Are any cables run through coal bunkers *no* or cargo spaces *no* or spaces which may be used for carrying cargo, stores, or baggage

If so, how are they protected

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 *Water tight + steam tight fittings*

Where are the main switches and fuses for these lights fitted *Panel on upper deck.*

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 *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 *Vapour proof 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.

*A. Parker Jr.*

Electrical Engineers

Date *Nov 3-1921*

COMPASSES.

Distance between dynamo or electric motors and standard compass *230 ft.*

Distance between dynamo or electric motors and steering compass *40 ft.*

The nearest cables to the compasses are as follows:—

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

New York Shipbuilding Corporation

*H. H. H. H.*

Builder's Signature.

Date *Nov 3-1921*

GENERAL REMARKS.

*This installation has been fitted in accordance with the Requirements of the Rules & worked satisfactorily on trial.*

*It is submitted that this vessel is eligible for THE RECORD.*

*Elec. Light.*

*17/1/22.*

*J. G. H.*

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

New York DEC 28 1921

*Elec. Light*



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THE SURVEYORS ARE REQUESTED NOT TO WRITE ACROSS THIS MARGIN.