

REPORT ON ELECTRIC LIGHTING INSTALLATION. No. 348

Port of Cleveland, O. Date of First Survey 11 Nov 1926 Date of Last Survey 31 March 27 No. of Visits 10
 No. in Reg. Book on the ~~Iron or Steel~~ S/S "ROBERT HOBSON" Port belonging to Fairport
 Built at Lorain, Ohio By whom American S. B. Co. When built 1926
 Owners Interlake S. S. Company Owners' Address Cleveland, Ohio.
 Yard No. 494 Electric Light Installation fitted by American S. B. Co. When fitted 1927-3.

DESCRIPTION OF DYNAMO, ENGINE, ETC.

Two 6 pole 15 H.P. generators direct coupled to reciprocating engs.
One 6 pole 7.5 H.P. auxiliary generator

Capacity of Dynamo 130 Amperes at 115 Volts, whether continuous or alternating current D. C.

Where is Dynamo fixed Engine Room Whether single or double wire system is used double

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

Positions of auxiliary switch boards and numbers of switches on each 8 - circuits auxiliary distribution panel for starb. Hall.

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 no 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 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 approx. 270 arranged in the following groups:—

A Ford. cabin 72 lights each of 25, 40, 100 watts candle power requiring a total current of 21 Amperes

B Eng. room 14 lights each of 40 & 100 candle power requiring a total current of 38 Amperes

C After cabin 38 lights each of 25, 40, 100 candle power requiring a total current of 20 Amperes

D lights each of candle power requiring a total current of Amperes

E lights each of candle power requiring a total current of Amperes

2 Mast head light with 2 lamps each of 60 watts candle power requiring a total current of 3 Amperes

2 Side light with 2 lamps each of 60 candle power requiring a total current of 3 Amperes

36 Cargo lights of 100 candle power, whether incandescent or arc lights 30 Amperes

If arc lights, what protection is provided against fire, sparks, &c. none used

Where are the switches controlling the masthead and side lights placed Pilot House

DESCRIPTION OF CABLES.

approx. 130 Amperes, comprised of 19 wires, each 12 Brs. 114645 circ. mils S.W.G. diameter, 124070 square inches total sectional area

Branch cables carrying 40 Amperes, comprised of 7 wires, each 14 S.W.G. diameter, 28749 square inches total sectional area

Branch cables carrying 20 Amperes, comprised of 7 wires, each 18 S.W.G. diameter, 11468 square inches total sectional area

Leads to lamps carrying 5 Amperes, comprised of 2 wires, each 14 S.W.G. diameter, 4107 square inches total sectional area

Cargo light cables carrying 30 Amperes, comprised of 6 wires, each 12 S.W.G. diameter, 39180 square inches total sectional area

DESCRIPTION OF INSULATION, PROTECTION, ETC.

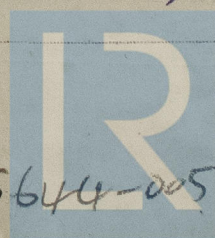
Vulcanized rubber double braided to specifications & tests of National Board of Fire Underwriters.

Joints in cables, how made, insulated, and protected soldered rubbered & taped

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 steel conduits where exposed, wood moulding in cabin.



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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 steel conduits and special guards
 What special protection has been provided for the cables near galleys or oil lamps or other sources of heat steel conduits
 What special protection has been provided for the cables near boiler casings steel conduits
 What special protection has been provided for the cables in engine room steel conduits
 How are cables carried through beams steel conduits through bulkheads, &c. A.S. fittings
 How are cables carried through decks A.S. fittings
 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 conduits and A.S. fittings
 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 guards
 Where are the main switches and fuses for these lights fitted main switchboard
 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 Permanent How fixed steel conduits
 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 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
 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 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.

The American Ship Bldg Co. Electrical Engineers Date _____

COMPASSES.

Distance between dynamo or electric motors and standard compass about 500 feet
 Distance between dynamo or electric motors and steering compass about 500 feet

The nearest cables to the compasses are as follows:—

A cable carrying	Amperes	feet from standard compass	feet from steering compass
<u>25</u>	<u>6</u>	<u>6</u>	
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.

Builder's Signature. Date _____

GENERAL REMARKS. This installation has been fitted on board the vessel in a satisfactory manner. The quality of the material and workmanship is good. It has been tried out under working conditions and found efficient.

It is submitted that this vessel is eligible for THE RECORD. Elec. light.
EL. for per 2474
225 1073/577
G. Drummond
17/5/27
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute. NEW YORK APR 27 1927

Electric Light 7.7

THE SURVEYORS ARE REQUESTED NOT TO WRITE ACROSS THIS MARGIN.