

REPORT ON ELECTRIC LIGHTING INSTALLATION. No. 74521

Port of Newcastle on Tyne Date of First Survey 4/5/21 Date of Last Survey 12/7/21 No. of Visits 7
 No. in San Felix Steel San Felix Port belonging to London
 Reg. Book 81711 Built at Newcastle By whom Armstrong Whitworth & Co Ltd When built 1921
 Owners Eagle Oil Transport Co Ltd Owners' Address _____
 Card No. 907 Electric Light Installation fitted by Armstrong Whitworth & Co Ltd When fitted 1921

DESCRIPTION OF DYNAMO, ENGINE, ETC.

Compound wound, multipolar dynamo direct coupled to steam engines. Maker Sunderland Forge & Eng Co Ltd R.P.M. 320

Capacity of Dynamo 120 Amperes at 100 Volts, whether continuous or alternating current continuous

Where is Dynamo fixed Dynamo flat attend engine room Whether single or double wire system is used double

Position of Main Switch Board 50 having switches to groups A, B, C + aux board of lights, &c., as below

Positions of auxiliary switch boards and numbers of switches on each see separate sheet attached herewith.

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 _____

Are the fuses of non-oxidisable metal yes and constructed to fuse at an excess of 50 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

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

Total number of lights provided for 266 + 49 fans arranged in the following groups:—

A Engine boiler rooms 69 lights each of 3-60 watt, 58-20 watt, 8-16 candle power requiring a total current of 18.2 Amperes

B Workshop motors lights each of 10 drilling machine 2 HP, 10 lathes motor 1 1/2 HP candle power requiring a total current of 32.3 Amperes

C Engine accom 71 lights each of 26-12 fan, 2-16 fan, 1-36 fan candle power requiring a total current of 37.9 Amperes

D See separate sheet lights each of _____ candle power requiring a total current of _____ Amperes

E for auxiliary board lights each of _____ candle power requiring a total current of _____ Amperes

2 Mast head light with 1 lamps each of 32 candle power requiring a total current of 2.4 Amperes

2 Side light with 1 lamps each of 32 candle power requiring a total current of 2.4 Amperes

8 Cargo lights of 96 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 In chart house.

DESCRIPTION OF CABLES.

Main cable carrying 150 Amperes, comprised of 37 wires, each 15 S.W.G. diameter, .18 square inches total sectional area

Branch cables carrying 37.9 Amperes, comprised of 19 wires, each 17 S.W.G. diameter, .06 square inches total sectional area

Branch cables carrying 32.3 Amperes, comprised of 7 wires, each 16 S.W.G. diameter, .0225 square inches total sectional area

Cables to lamps carrying 2.4 Amperes, comprised of 3 wires, each 22 S.W.G. diameter, .002 square inches total sectional area

Cargo light cables carrying 3.6 Amperes, comprised of 70 wires, each 36 S.W.G. diameter, .003 square inches total sectional area

DESCRIPTION OF INSULATION, PROTECTION, ETC.

Lead covered cable in cabins accommodation. Engine room lead covered & armoured cable. Special twin between Junction boxes forward & aft. Two proof tapes compounded cores. Jute covered, taped braided & compounded, armoured & braided & compounded in cables, how made, insulated, and protected none made. overall.

Are all the joints of cables thoroughly soldered, and the flux used not containing acids or other corrosive substances _____ 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 _____

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 lead covered or lead covered & armoured cables clipped with brass clips. Special armoured twin clipped to underside of gangway by means of galvanised iron clips.



