

REPORT ON ELECTRIC LIGHTING INSTALLATION. No. 6272

Port of **Hong Kong** Date of First Survey **22-3-28** Date of Last Survey **13-4-28** No. of Visits **5**
No. in Reg. Book **on the ~~XXXX~~ Steel Screw tug "CHIRM CHOM PHOL"** Port belonging to **Bangkok**
Built at **Hong Kong** By whom **W.S. Bailey & Co. Ltd.** When built **1928**
Owners **The Siam Co. Ltd.** Owners' Address **Bangkok, Siam**
Yard No. **243** Electric Light Installation fitted by **William C. Jack & Co. Ltd.** When fitted **1928**

DESCRIPTION OF DYNAMO, ENGINE, ETC.

One **3½" x 3"** vertical enclosed steam engine with throttle governor capable of developing **5½ B.H.P.** at **650 R.P.M.** with **120 lbs.** steam pressure direct coupled on extended bed-plate to **3 K.W.** compound wound dynamo.

Capacity of Dynamo **30.** Amperes at **100** Volts, whether continuous or alternating current **Continuous**

Where is Dynamo fixed **Starboard side of engine room** Whether single or double wire system is used **Double**

Position of Main Switch Board **On bunker bulkhead** having switches to groups **A, B, & C.** of lights, &c., as below

Positions of auxiliary switch boards and numbers of switches on each **None**

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-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 -

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

Total number of lights provided for **39** arranged in the following groups:—

A	26.	lights each of	32	candle power requiring a total current of	10.4	Amperes
B	9.	lights each of	32	candle power requiring a total current of	3.6	Amperes
C	4.	lights each of	32.	candle power requiring a total current of	1.6	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
1	Mast head light with 1 lamps each of	32	candle power requiring a total current of	.4	Amperes	
2	Side light with 1 lamps each of	32	candle power requiring a total current of	.8	Amperes	
No	Cargo lights of	-	candle power, whether incandescent or are lights	-		

If arc lights, what protection is provided against fire, sparks, &c. -

Where are the switches controlling the masthead and side lights placed **Captain's cabin on bridge**

DESCRIPTION OF CABLES.

Main cable carrying	15.6	Amperes, comprised of	7	wires, each	18	S.W.G. diameter, .0125	square inches total sectional area
Branch cables carrying	10.6	Amperes, comprised of	1	wires, each	16	S.W.G. diameter, .0032	square inches total sectional area
Branch cables carrying	3.6	Amperes, comprised of	1	wires, each	18	S.W.G. diameter, .0018	square inches total sectional area
Leads to lamps carrying	1.6	Amperes, comprised of	1	wires, each	18	S.W.G. diameter, .0018	square inches total sectional area
Cargo light cables carrying	-	Amperes, comprised of	-	wires, each	-	S.W.G. diameter, -	square inches total sectional area

DESCRIPTION OF INSULATION, PROTECTION, ETC.

Ship wired throughout with **Galenders. C.M.A. cable 2500 meg. and 600 meg. grade. Cabin accomodation wired with lead covered wire and engine room wired with steel armoured & lead covered wire.**

Joints in cables, how made, insulated, and protected **Loop in system used throughout no joints being used.**

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 **Main cables protected with steel wire armour, clipped to deck and bulkheads.**

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 wire armoured.**

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

What special protection has been provided for the cables near boiler casings **Steel wire armoured.**

What special protection has been provided for the cables in engine room **Steel wire armoured.**

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

How are cables carried through decks **in deck tubes.**

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

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 **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 **None** 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 **On main S. 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

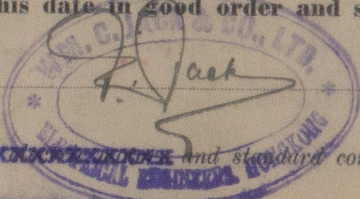
Are any switches, fuses, or joints of cables fitted in the pump room or companion

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 **2500** 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.



Electrical Engineers

Date **16th April 1928.**

COMPASSES.

Distance between dynamo **36 feet.** and standard compass **36 feet.**

Distance between dynamo **36 feet.** and steering compass **36 feet.**

The nearest cables to the compasses are as follows:—

A cable carrying	Amperes	feet from standard compass	feet from steering compass
1	2	2	2
-	-	-	-
-	-	-	-

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 **N11** degrees on **-** course in the case of the standard compass and **N11** degrees on **-** course in the case of the steering compass.

For W. S. BAILEY & Co., Ltd.

W. S. Bailey

Builder's Signature.

Date **April 18th. 1928.**

GENERAL REMARKS.

Installation tested on April 13th. 1928 with satisfactory results.

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

23/5/28.

W. Morrison

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 25 MAY 1928

Elec Light

TUE. 12 MAR 1929

TUE. 15 OCT 1928

FRI. 15 NOV 1929

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