

Rpt. 13.

No. 46003

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

-3 NOV 1926

Received at London Office

Date of writing Report 24.7.1926 When handed in at Local Office 1-11-1926 Port of GLASGOW.

No. in Survey held at
Reg. Book.

PAISLEY

Date, First Survey 28th July Last Survey 2nd Sept 1926
(Number of Visits 5)

39383 on the

CRANE STEAMER "HIKITIA"

Tons { Gross 246
Net

Built at

PAISLEY

By whom built

FLEMING & FERGUSON LTD

Yard No.

486

When built 1926

Owners

THE WELLINGTON HARBOUR BOARD

Port belonging to

WELLINGTON

Electric Light Installation fitted by MESSRS CLAUD HAMILTON LTD Contract No. 486 When fitted 1926.

System of Distribution

double wire distributed along fuse box ✓
110 ✓

Pressure of supply for Lighting

volts, Heating

volts, Power

volts.

Direct or Alternating Current, Lighting

direct ✓

Power

If alternating current system, state frequency of periods per second

Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off

yes ✓

Generators, do they comply with the requirements regarding overload

yes ✓

, are they compound wound

yes ✓

are they over compounded 5 per cent.

yes ✓

, if not compound wound state distance between each generator

Where more than one generator is fitted are they arranged to run in parallel

-

, is an adjustable regulating resistance fitted in

series with each shunt field

yes.

Are all terminals accessible and clearly marked

yes

, are they so spaced or shielded that they cannot be accidentally earthed,

or short circuited

yes.

Are the lubricating arrangements of the generators as per Rule

5 Sect 2

Position of Generators

Engine Room

is the ventilation in way of the generators satisfactory

yes.

, are they clear of all inflammable material

yes.

if situated near unprotected woodwork or other combustible material, state distance of same horizontally from or vertically above the generators

-

and

-

, are the generators protected from mechanical injury and damage from water, steam or oil

are their axis of rotation fore and aft

yes.

Earthing, are the bedplates and frames of the generating plant efficiently earthed

yes.

are the prime movers and

their respective generators in metallic contact

yes.

Main Switch Boards, where placed

Engine Room

If the generators and main switchboard are not placed in the same compartment, is each generator provided with

a fuse on each insulated pole as near as possible to the terminals of the generator, additional to that provided on the main switchboard

Same compartment

Switchboards, are they placed in accessible positions, free from inflammable gases and acid fumes

yes.

are they protected from mechanical injury and damage from water, steam or oil

yes.

, if situated near unprotected

woodwork or other combustible material, state distance of same horizontally from or vertically above the switchboards

-

and

-

are they constructed wholly of durable, incombustible non-absorbent materials

yes.

, is all insulation of high dielectric strength and of

permanently high insulation resistance

yes.

, if semi-insulating material is used, are all conducting parts connected to one pole

insulated from the slab with mica or micanite and the slab similarly insulated from its framework

yes.

, and is the

frame effectively earthed

yes.

Are the following fittings as per Rule, viz.:— spacing or shielding of live parts

yes.

, accessibility of all parts

yes.

, absence of fuses on back of board

yes.

, proportion of omnibus

bars

yes.

, individual fuses to voltmeter, pilot or earth lamp

yes.

, connections of switches

yes.

Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches

D.P. main switch and fuses for dynamo with S.P. switches and D.P. fuses for circuits

Instruments on main switchboard

1

ammeters

1

voltmeters

-

synchronising device for paralleling purposes.

Earth Testing, state what means are provided at the main switchboard for indicating the state of the insulation of the system

earth lamp.

Switches, Circuit Breakers and Fusible Cut-outs, do these comply with the requirements of the Rules

yes.

Section and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule

yes.

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If portable lamps for use in dangerous spaces are supplied, are they of a type approved by the Home Office _____

MOTOR CONDUCTORS.									
Ref. No.	DESCRIPTION.	No. of Motors.	Effective Area of each Conductor. Sq. Ins.	COMPOSITION OF STRAND.		Total Maximum Current. Amperes.	Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
				No.	Diameter.				
	BALLAST PUMP	-							
	MAIN BILGE LINE PUMPS	-							
	GENERAL SERVICE PUMP	-							
	EMERGENCY BILGE PUMP	-							
	SANITARY PUMP	-							
	CIRC. SEA WATER PUMPS	-							
	CIRC. FRESH WATER PUMPS	-							
	AIR COMPRESSOR	-							
	FRESH WATER PUMP	-							
	ENGINE TURNING GEAR	-							
	ENGINE REVERSING GEAR	-							
	LUBRICATING OIL PUMPS	-							
	OIL FUEL TRANSFER PUMP	-							
	WINDLASS	-							
	WINCHES, FORWARD	-							
	WINCHES, AFT	-							
	STEERING GEAR	-							
	WORKSHOP MOTOR	-							
	VENTILATING FANS	-							

All Conductors are of annealed copper conforming to British Standard Specification No. 7.
The Insulated Conductors are guaranteed to withstand the immersion and resistance tests specified in the Rules.
The foregoing is a correct description.

For CLAUD HAMILTON, LIMITED

W. B. ...
Director.

Electrical Engineers.

Date 13th Aug 26.

COMPASSES.

Distance between electric generators or motors and standard compass *no compass*

Distance between electric generators or motors and steering compass

The nearest cables to the compasses are as follows:—

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

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

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

Have the compasses been adjusted with and without the electric installation at work at full power.

Has the effect of switching on and off circuits, motors and other electro-magnetic apparatus within the vicinity of the compasses been noted.

The maximum deviation due to electric currents 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.

For Fleming & Ferguson, Ltd.

A. W. D. Westwood
Builder's Signature.

Date

26th Oct 1926

Is this installation a duplicate of a previous case *Yes* If so, state name of vessel

"KAPAKI"

General Remarks (State quality of workmanship, opinions as to class, &c.)

This installation has been fitted on board under special survey. Tested under full working conditions and found satisfactory. The workmanship was found to be good and sound.

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

A. W. D.
5/11/26

Total Capacity of Generators *4* Kilowatts

The amount of Fee ... £ *5.00* : When applied for, *5/10/26*

Travelling Expenses (if any) £ : When received, *7/10/26*

Committee's Minute

GLASGOW 2-NOV 1926

Assigned *Elec. Light.*

J. S. Rankin.
Surveyor to Lloyd's Register of Shipping.



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Lloyd's Register
Foundation