

Rpt. 13.

No. 37298

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

10 AUG 1926

Date of writing Report

9 AUG 1926

When handed in at Local Office

Aug 9th 1926

Port of

Hull

No. in Survey held at

Hull

Date, First Survey

29 May

Last Survey

Aug 7th

1926.

Reg. Book.

(Number of Visits.....)

on the

steam trawler "KINGSTON PEARL".

Tons

Gross

Net

Built at

Beverley

By whom built

Cook, Welton & Gemmell

Yard No.

When built

1926

Owners

Kingston S.T. Co. Ltd.

Port belonging to

Hull

Electric Light Installation fitted by

Wm. Brandy & Co. Ltd.

Contract No.

When fitted

1926.

System of Distribution

Two wire.

Pressure of supply for Lighting

100

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

yes

is an adjustable regulating resistance fitted in

series with each shunt field

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

yes

Position of Generators

Starboard side of 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

yes

and

yes

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

yes

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

Beside dynamo in 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

yes

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

yes

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

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

Each outgoing circuit

by SP fuse & SP switch.

Instruments on main switchboard

one

ammeters

one

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

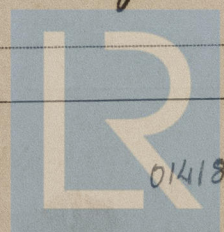
Earth lamps

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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Insulation of Cables, state type of cables, single or twin *both* are the cables insulated and protected as per Tables III or IV of the Rules *yes*

Fall of Pressure, state maximum between bus bars and any point of the installation under maximum load *1 volt*

Cable Sockets and other connections, are the ends of all cables having a sectional area of 0.007 square inch and above provided with soldering sockets *yes*

Paper Insulated Cables, If cables are paper covered, is the dielectric at the exposed ends of the conductor protected from moisture by being suitably sealed with insulating compound *none*

Cable Runs, are the cables fixed as far as possible in accessible positions not exposed to drip or accumulation of water or oil, or to high temperature from boilers, steam pipes, uptakes or other hot objects, or to avoidable risk of mechanical damage *yes*

Support and Protection of Cables, state how the cables are supported and protected *armoured cables C.I. clips & screws.*

L.C. cables with brass clips.

If cables are run in wood casings, are the casings and caps secured by screws *✓*, are the cap screws of brass *✓*, are the cables run in separate grooves *✓*. If armoured and lead covered cables are secured by metal clips, are the clips spaced as per Table VI *yes*

Refrigerated Chambers, if lights are fitted, are the cables and fittings in accordance with the special requirements *none*

Joints in Cables, state if any, and how made, insulated, and protected *no joints.*

Watertight Glands and Deck Tubes, are all cables passing through decks and watertight bulkheads provided with deck tubes or watertight glands *yes*

Bushes in Beams and Non-watertight Positions, where unarmoured cables pass through beams and non-watertight partitions, are the holes efficiently bushed *yes* state the material of which the bushes are made *alumite.*

Earthing Connections, state what earthing connections are fitted and their respective sectional areas *at switch board through earth lamps.*

are their connections made as per Rule *yes*

Alternative Lighting, are the groups of lights in the propelling machinery space arranged as per Rule *yes*

Emergency Supply, state position and method of control of the emergency supply and how the generator is driven *none*

Navigation Lamps, are these separately wired *yes*, controlled by separate switch and separate fuses *yes*

are the fuses double pole *yes*, are the switches and fuses grouped in a position accessible only to the officers on watch *yes*

has each navigation lamp an automatic indicator as per Rule *no*, are separate screens provided for the use of oil and electric side lights *yes*

are separate oil lanterns provided for the mast head lights and side lights *yes*

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, watertight *yes*

are any fittings placed in spaces in which goods are liable to be stacked in close proximity to them; if so, how are they protected *none*

are any fittings placed in spaces where inflammable or explosive dust or gases are liable to be present, if so, how are they protected *✓*

how are the cables led *✓*

where are the controlling switches situated *✓*

Searchlight Lamps, No. of *none*, whether fixed or portable *✓*, are their fittings as per Rule *✓*

Arc Lamps, other than searchlight lamps, No. of *none*, are their live parts insulated from the frame or case *✓*, are their fittings as per Rule *✓*

Motors, are their working parts readily accessible *none*, are the coils self-contained and readily removable for replacement *✓*

are the brushes, brush holders, terminals and lubricating arrangements as per Rule *✓*, are the motors placed in well-ventilated compartments in which inflammable gases cannot accumulate and clear of all inflammable material *✓*

are they protected from mechanical injury and damage from water, steam or oil *✓* are their axis of rotation fore and aft *✓*

if situated near unprotected woodwork or other combustible material, are the motors of the totally enclosed, pipe ventilated, forced draught, drip or flame proof type *✓*

if not of this type, state distance of the combustible material horizontally or vertically above the motors *✓* and *✓*

Control Gear and Resistances, are the generator field and motor speed regulators, starters and controllers constructed as per Rule *✓*

Lightning Conductors, where lightning conductors are required, are these fitted as per Rule *none*

Ships carrying Oil having a Flash Point less than 150° F. Have the special requirements of the Rules been complied with regarding switches, joint boxes, section and distribution boards, protection of cables, method of distribution, lead of cables, lights and fittings *✓*

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

PARTICULARS OF GENERATING PLANT.									
DESCRIPTION OF GENERATOR.	No. of	RATED AT				DRIVEN BY.	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE.		
		Kilowatts.	Volts.	Ampères.	Revs. per Min.		Fuel Used.	Flash Point of Fuel.	
MAIN ...	<i>one</i>	<i>6</i>	<i>100</i>	<i>60</i>	<i>350</i>	<i>Steam engine.</i>			
AUXILIARY ...									
EMERGENCY ...									
ROTARY TRANSFORMER									

LIGHTING AND HEATING CONDUCTORS.									
Ref. No.	DESCRIPTION.	No. of Conductors.	Effective Area of each Conductor. Sq. Ins.	COMPOSITION OF STRAND.		Total Maximum Current. Ampères.	Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
				No.	Diameter.				
	MAIN GENERATOR...	<i>2</i>	<i>.06</i>	<i>19</i>	<i>.064</i>	<i>45</i>	<i>24</i>	<i>V.I.R.</i>	<i>Lead covered.</i>
	AUXILIARY GENERATOR								
	EMERGENCY GENERATOR								
	ROTARY TRANSFORMER...								
	AUXILIARY SWITCHBOARDS								
	ENGINE ROOM	<i>2</i>	<i>.0018</i>	<i>3</i>	<i>22 W.G.</i>	<i>2</i>	<i>100</i>	<i>"</i>	<i>LC & armoured.</i>
	BOILER ROOM	<i>2</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>2</i>	<i>60</i>	<i>"</i>	<i>"</i>
	<i>Accommodation</i>	<i>2</i>	<i>.0125</i>	<i>7</i>	<i>18 "</i>	<i>10</i>	<i>24</i>	<i>"</i>	<i>"</i>
	<i>"</i>	<i>2</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>10</i>	<i>160</i>	<i>"</i>	<i>"</i>
	WIRELESS								
	SEARCHLIGHT								
	MASTHEAD LIGHT...	<i>2</i>	<i>.0018</i>	<i>3</i>	<i>22 W.G.</i>	<i>2</i>	<i>160</i>	<i>"</i>	<i>"</i>
	SIDE LIGHTS	<i>2</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>2</i>	<i>50</i>	<i>"</i>	<i>"</i>
	COMPASS LIGHTS	<i>2</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>2</i>	<i>50</i>	<i>"</i>	<i>"</i>
	POOP LIGHTS								
	CARGO LIGHTS								
	ARC LAMPS								
	HEATERS								

MOTOR CONDUCTORS.									
Ref. No.	DESCRIPTION.	No. of Motors.	Effective Area of each Conductor. Sq. Ins.	COMPOSITION OF STRAND.		Total Maximum Current. Ampères.	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.

WM. BROADY & SONS
ENGLISH STREET
HULL.

Electrical Engineers.

Date 5/7/26.

COMPASSES.

Distance between electric generators or motors and standard compass

60 ft.

Distance between electric generators or motors and steering compass

56 ft.

The nearest cables to the compasses are as follows:—

A cable carrying 3 Amperes 8 feet from standard compass 4 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 yes

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

The maximum deviation due to electric currents was found to be no degrees on any course in the case of the standard

compass, and no degrees on any course in the case of the steering compass.

COOK, WELTON & GEMMELL, LTD.

Alfred S. Lurich

Builder's Signature.

Date 7.7.26

DIRECTOR

Is this installation a duplicate of a previous case yes If so, state name of vessel "Immature."

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

The electrical installation of this vessel has been fitted on board under special survey, tried under working conditions & found in good order. It is eligible in our opinion to have record of 'Electric Light'.

Elec. Light.

11/8/26.

Total Capacity of Generators 6 Kilowatts

The amount of Fee ... £ 3 : 0 :

When applied for,

1926

When received,

1.10.1926

Travelling Expenses (if any) £ :

P. Fitzgibbon, Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 18 AUG 1926

FRI. 27 AUG 1926

Assigned

Elec. Light