

Rpt. 13.

No. 38262

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

16 AUG 1927

Received at London Office

Date of writing Report

15 AUG 1927

When handed in at Local Office

15 AUG 1927

Port of

Hull

No. in Survey held at

Hull.

Date, First Survey

23 July

Last Survey

6 Aug

1927.

Reg. Book.

11903

on the Steam Trawler "Kingston Onyx".

Tons

Gross 352.37

Net

145.75

Built at

Beverley

By whom built

Book, Walton & Gemmell

Yard No.

488

When built

1927.

Owners

Kingston Steam Trawling Co Ltd.

Port belonging to

Hull.

Electric Light Installation fitted by W Broady & Sons Ltd.

Contract No.

When fitted 1927.

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 rating

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

Are all terminals accessible, clearly marked, and furnished with sockets

yes.

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

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

✓

and

✓

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

yes.

are their axes 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

Direct coupled.

Main Switch Boards, where placed

Beside generator 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

✓

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, non-ignitable non-absorbent materials

✓

is all insulation of high dielectric strength and of permanently high insulation resistance

yes.

if semi-insulating material is used, are all conducting parts insulated from the slab with mica or micanite or other non-hygroscopic insulating material, and the slab similarly insulated from its framework

✓

and is the frame effectively earthed

yes.

Are the fittings as per Rule regarding:— 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

Main circuits controlled by S.P. switches and protected by S.P. fuses.

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

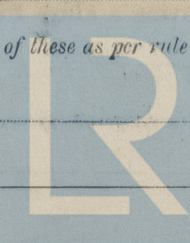
Earth lamps with separate switches.

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

yes

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

yes



Lloyd's Register Foundation

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Cables: Single, twin, concentric, or multicore Both are the cables insulated and protected as per Tables IV or V of the Rules yes

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

Cable Sockets and other connections, are the ends of all cables having a sectional area of 0.04 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 fitted

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, uplakes 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 L.C. & armoured cables with galvanised iron clips. 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 VIII 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 Partitions, 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 lead

Earthing Connections, state what earthing connections are fitted and their respective sectional areas Through earth lamps

are their connections made as per Rule yes

Alternative Lighting, are the groups of lights in the projecting 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

Secondary Batteries, are they constructed and fitted as per Rule 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 none

how are the cables led yes

where are the controlling switches situated yes

Searchlight Lamps, No. of ✓, whether fixed or portable ✓, are their fittings as per Rule ✓

Are Lamps, other than searchlight lamps, No. of ✓, are their live parts insulated from the frame or case ✓, are their fittings as per Rule ✓

Motors, are their working parts readily accessible ✓, are the coils self-contained and readily removable for replacement yes

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 out of all inflammable materials yes

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

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 and fitted as per Rule ✓

Lightning Conductors, where lightning conductors are required, are these fitted as per Rule yes

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	1	6	100	60	350	Steam engine.			
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...	2	.064	19	16WG.	60.	24	V.I.R.	Lead covered
	EQUALISER CONNECTIONS								
	AUXILIARY GENERATOR								
	EMERGENCY GENERATOR								
	ROTARY TRANSFORMER...								
	AUXILIARY SWITCHBOARDS								
	ENGINE ROOM	2	.0018	3	22WG	2	60	V.I.R.	L.C. & Armoured
	BOILER ROOM	2	"	3	22"	2	80	"	" "
	ACCOMMODATION	2	.0125	7	18WG	8	24	"	Lead covered.

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 & SON,
ENGLISH STREET,
HULL.

Electrical Engineers.

Date 10/8/27

COMPASSES.

Distance between electric generators or motors and standard compass

Distance between electric generators or motors and steering compass

60 feet

The nearest cables to the compasses are as follows:—

A cable carrying .5 Amperes 7 feet from standard compass 7 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

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 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 & BEMMELL, LTD.

Alpha Fivich Builder's Signature.

Date 12 Aug 1927

Secretary & Director

Is this installation a duplicate of a previous case yes If so, state name of vessel Kington Topy

General Remarks (State quality of workmanship, opinions as to class, etc.) The electric installation has been fitted on board under special survey, tried under full load and working conditions and found in order. It is eligible in my opinion to have record in the "Register Book" of Electric Light.

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

Elec Light

16/8/27

J. Williams

Total Capacity of Generators 6 Kilowatts.

The amount of Fee ... £ 3:0:0

When applied for, 15 Aug 1927

Travelling Expenses (if any) £

When received, 26 10 27

John K. Williams.

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI, 19 AUG 1927

Assigned

Elec Light



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Im 127.—Transfer.
(The Surveys are requested not to write on or below the space for Committee's Minute.)