

Rpt. 13.

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report 19 When handed in at Local Office 4 APR 1935 Port of Hull
No. in Survey held at Hull Date, First Survey 19th Mar. 1935 Last Survey 1st April, 1935
Reg. Book. on the Steel Sc. K. "Kingston Cairngorm" (Number of Visits 3)
Built at Beverley By whom built Cook Welton & Gemmell Ltd Yard No. 601 Tons { Gross 448.08
Net 173.79
When built 1935.4.
Owners Kingston Steam Trawling Co. Ltd. Port belonging to Hull.
Electric Light Installation fitted by W. Broady & Son Contract No. When fitted 1935.
Is the Vessel fitted for carrying Petroleum in bulk No.

System of Distribution

Pressure of supply for Lighting 100 volts, Heating 100 volts, Power

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

Generators, do they comply with the requirements regarding rating

are they over compounded 5 per cent.

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

series with each shunt field

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

short circuited, or touched

Position of Generators

is the ventilation in way of the generators satisfactory

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 axes of rotation fore and aft

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

their respective generators in metallic contact

Main Switch Boards, where placed

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

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

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

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

permanently high insulation resistance

with mica or micanite or other non-hygroscopic insulating material, and the slab similarly insulated from its framework

and is the frame effectively earthed

accessibility of all parts

individual fuses to voltmeter, pilot or earth lamp

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

for generator.

by fuses on each pole.

Instruments on main switchboard One ammeters One voltmeters

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

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

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



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Cables: Single, twin, concentric, or multicore Lead 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 1 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

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 G.I. clips; lead covered in cabin spaces with brass clips
If cables are run in wood casings, are the casings and caps secured by screws Yes, are the cap screws of brass Yes, are the cables run in separate grooves Yes. 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 None

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 Yes, 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 None

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

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 None

where are the controlling switches situated Yes

Searchlight Lamps, No. of 1, whether fixed or portable 1, are their fittings as per Rule Yes

Are Lamps, other than searchlight lamps, No. of 1, are their live parts insulated from the frame or case Yes, are their fittings as per Rule Yes

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

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

are they protected from mechanical injury and damage from water, steam or oil Yes, 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 Yes, if not of this type, state distance of the combustible material horizontally or vertically above the motors Yes

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

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 Yes

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

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 ...	<u>One</u>	<u>8</u>	<u>100</u>	<u>80</u>	<u>350</u>	<u>Steam Engine</u>		
AUXILIARY ...								
EMERGENCY ...								
ROTARY TRANSFORMER								

GENERATOR, LIGHTING AND HEATING CONDUCTORS.

DESCRIPTION.	CONDUCTORS.		COMPOSITION OF STRAND.		TOTAL MAXIMUM CURRENT, AMPERES.		Approximate Length (Lead and Return) Feet.	Insulated with	HOW PROTECTED.
	No. per Pole.	Total Effective Area per Pole Sq. Ins.	No.	Diameter.	In Circuit.	Rule.			
MAIN GENERATOR ...	<u>1</u>	<u>0.060</u>	<u>19</u>	<u>0.064</u>	<u>68</u>	<u>83</u>	<u>40</u>	<u>V.I.R.</u>	
EQUALISER CONNECTIONS ...									
AUXILIARY GENERATOR ...									
EMERGENCY GENERATOR ...									
ROTARY TRANSFORMER { MOTOR GENERATOR ...									
ENGINE ROOM ...	<u>1</u>	<u>0.00299</u>	<u>3</u>	<u>0.036</u>	<u>6</u>	<u>12</u>	<u>40</u>	<u>"</u>	<u>L.C. & armoured.</u>
BOILER ROOM ...	<u>1</u>	<u>0.00299</u>	<u>3</u>	<u>0.036</u>	<u>2</u>	<u>12</u>	<u>60</u>	<u>"</u>	<u>"</u>
AUXILIARY SWITCHBOARDS ...									
ACCOMMODATION <u>Mr. Ship</u> ...	<u>1</u>	<u>0.01046</u>	<u>7</u>	<u>0.044</u>	<u>10.5</u>	<u>31</u>	<u>150</u>	<u>"</u>	<u>"</u>
" <u>Forward</u> ...	<u>1</u>	<u>0.00701</u>	<u>7</u>	<u>0.036</u>	<u>8</u>	<u>24</u>	<u>250</u>	<u>"</u>	<u>"</u>
" <u>Aft</u> ...	<u>1</u>	<u>0.00701</u>	<u>7</u>	<u>0.036</u>	<u>7</u>	<u>24</u>	<u>30</u>	<u>"</u>	<u>"</u>
Navigation <u>Chain</u> ...	<u>1</u>	<u>0.00701</u>	<u>7</u>	<u>0.036</u>	<u>5</u>	<u>24</u>	<u>150</u>	<u>"</u>	<u>"</u>
WIRELESS ...	<u>1</u>	<u>0.00701</u>	<u>7</u>	<u>0.036</u>	<u>10</u>	<u>24</u>	<u>150</u>	<u>"</u>	<u>"</u>
SEARCHLIGHT ...									
MASTHEAD LIGHT ...	<u>1</u>	<u>0.00299</u>	<u>3</u>	<u>0.036</u>	<u>1</u>	<u>12</u>	<u>180</u>	<u>"</u>	<u>"</u>
SIDE LIGHTS ...	<u>1</u>	<u>0.00299</u>	<u>3</u>	<u>0.036</u>	<u>1.5</u>	<u>12</u>	<u>24</u>	<u>"</u>	<u>L.C.</u>
COMPASS LIGHTS ...	<u>1</u>	<u>0.00194</u>	<u>3</u>	<u>0.029</u>	<u>1</u>	<u>7.8</u>	<u>20</u>	<u>"</u>	<u>L.C.</u>
POOP LIGHTS ...	<u>1</u>	<u>0.00194</u>	<u>3</u>	<u>0.029</u>	<u>1</u>	<u>7.8</u>	<u>130</u>	<u>"</u>	<u>L.C. & armoured</u>
CARGO LIGHTS ...	<u>1</u>	<u>0.00194</u>	<u>3</u>	<u>0.029</u>	<u>6</u>	<u>7.8</u>	<u>20</u>	<u>"</u>	<u>"</u>
ARC LAMPS ...									
HEATERS ...	<u>1</u>	<u>0.00299</u>	<u>7</u>	<u>0.036</u>	<u>10</u>	<u>12</u>	<u>30</u>	<u>"</u>	<u>L.C.</u>

MOTOR CONDUCTORS.

DESCRIPTION.	No. of Motors.	CONDUCTORS.		COMPOSITION OF STRAND.		TOTAL MAXIMUM CURRENT, AMPERES.		Approximate Length (Lead and Return) Feet.	Insulated with	HOW PROTECTED.
		No. Per Pole.	Total Effective Area per Pole Sq. Ins.	No.	Diameter.	In Circuit.	Rule.			
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—										
(a) MOTOR GENERATOR ...										
(b) MAIN MOTOR ...										
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 & SON
ENGLISH STREET
HULL.

Electrical Engineers.

Date 28th March 1935.

COMPASSES.

Distance between electric generators or motors and standard compass

75 ft.

Distance between electric generators or motors and steering compass

The nearest cables to the compasses are as follows:—

A cable carrying 0.5 Ampères to feet from standard compass ✓ feet from steering compass.

A cable carrying 0.5 Ampères to 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 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.

Director
Secretary & Director.

Builder's Signature.

Date 30/3/35

Is this installation a duplicate of a previous case Yes If so, state name of vessel "Kingston Ceylonite"

General Remarks (State quality of workmanship, opinions as to class, &c. This electrical installation has been fitted on board under special survey and in accordance with the rules.

It has been tried under working conditions, found satisfactory and is eligible in my opinion, to have the notation of "Electric Light."

Noted

8/4/35

AL

Total Capacity of Generators 8 Kilowatts.

The amount of Fee ... £ 4 : 0 :

When applied for,

4 APR 1935

When received,

27.4.35

Travelling Expenses (if any) £ :

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUE. 9 APR 1935

Assigned

see J E Machez



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