

Rpt. 13.

No. 8560

# REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

14 APR 1926

Date of writing Report 3<sup>rd</sup> April 1926 When handed in at Local Office 13<sup>th</sup> April 1926 Port of Burda

No. in Survey held at Montrose Date, First Survey 16<sup>th</sup> Dec 1926 Last Survey 7<sup>th</sup> April 1926  
 Reg. Book. (Number of Visits.....15.....)

on the M.Y. "KYBRA"

Built at Montrose By whom built Coastal Construction Co. Ltd Yard No. 1214 When built 1926  
 Tons { Gross 858.15  
 Net 440.03

Owners West Australia The State Shipping Service Port belonging to Fremantle

Electric Light Installation fitted by Coastal Construction Co. Ltd. Contract No. ✓ When fitted 1926

## System of Distribution

Pressure of supply for Lighting 220 ✓ volts, Heating 220 ✓ volts, Power 220 ✓ volts.

Direct or Alternating Current, Lighting Direct Power Direct ✓

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 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 Yes

Position of Generators Port & Starboard sides of main engines,  
 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 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 Forward end of engine room on top platform

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 None,  
 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 ✓, 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 Good, absence of fuses on back of board None, 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 3 Pole

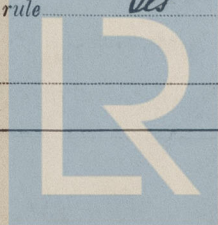
overload time limit & reverse current cut off: switch for each main generator  
S.P. main switch and fuse on Aux Generator.

Instruments on main switchboard 4 ammeters 4 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 2 earth lamps  
on main Bus Bars & 2 on Auxiliary Bus Bars

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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[illegible]

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 ... ..	2	2214	7	.064	40 each motor	40	Rubber	L.C. on Tray - each
	MAIN BILGE LINE PUMPS ...	2	2214	7	.064	40	40	Rubber	" " - "
	GENERAL SERVICE PUMP								
	EMERGENCY BILGE PUMP								
	SANITARY PUMP ... ..								
	CIRC. SEA WATER PUMPS ...								
	CIRC. FRESH WATER PUMPS								
	AIR COMPRESSOR ... ..	1	147	37	.072	266	40	Paper	L.C. on Tray
	FRESH WATER PUMP ... ..								
	ENGINE TURNING GEAR ...								
	ENGINE REVERSING GEAR ...								
	LUBRICATING OIL PUMPS	2	2214	7	.064	28	40	Rubber	L.C. on Tray each
	OIL FUEL TRANSFER PUMP								
	WINDLASS ... ..	1	.06	19	.064	85	60	Paper	L.C.
	WINCHES, FORWARD ...	2	1168	37	.064	200			
	WINCHES, AFT ... ..	2	1168	37	"	"			
	STEERING GEAR ... ..	1		7	.024	28	200	Rubber	L.C.
	WORKSHOP MOTOR ... ..	1		7	.036	8	40	"	L.C.
	VENTILATING FANS ...	19	each fed off L.C. cable			nearest lightning distribution box with 1/4"			
	Refrigerating motor	1	.01046	7	.024	28	130	Rubber	L.C.



All Conductors are of annealed copper conforming to British Standard Specification No. 7. *Yes*

The Insulated Conductors are guaranteed to withstand the immersion and resistance tests specified in the Rules. *Yes*

The foregoing is a correct description.

*Craster Construction Co. Ltd.*

Electrical Engineers.

Date

#### COMPASSES.

Distance between electric generators or motors and standard compass *nearest motor 28 ft nearest Generator 74 ft*

Distance between electric generators or motors and steering compass *" " 20 ft " " 62 ft*

The nearest cables to the compasses are as follows:—

A cable carrying *14* Ampères *inside* ~~feet from~~ standard compass *5* feet from steering compass.

A cable carrying *14* Ampères *3* feet from standard compass *2* feet from steering compass.

A cable carrying *14* Ampères *—* feet from standard compass *3* 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 *nil* degrees on *all* courses in the case of the standard compass, and *nil* degrees on *all* courses in the case of the steering compass.

FOR CRASTER CONSTRUCTION COMPANY, LIMITED

*J. J. Johnston*

Builder's Signature.

Date

*5th April 1926*

Is this installation a duplicate of a previous case *no* If so, state name of vessel *✓*

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

*This installation has been fitted on board in accordance with the Rules; the materials and workmanship are sound & good: it has been tried under working conditions and found satisfactory in all respects.*

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

*J. W. D.*  
*14/4/26*

Total Capacity of Generators *157* Kilowatts

The amount of Fee ... *£ 34 : 7* : { When applied for, *13/4/1926*

Travelling Expenses (if any) *£ 2 : 18* : { When received, *15.4.1926*  
*due Glasgow*

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

Committee's Minute

Assigned

*Elec. Lt.*



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