

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

APR 3 1939

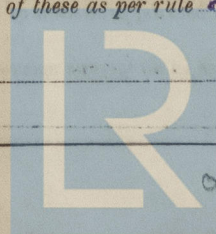
Received at London Office

Date of writing Report 1/3/39 10 When handed in at Local Office 2/3/39 10 Port of Hong KongNo. in Survey held at Hong Kong Date, First Survey 13/4/39 Last Survey 24/2/1939
Reg. Book. (Number of Visits 6)on the M/V "ANTONIA" Tons { Gross 502.12
Net 297.11Built at Hong Kong By whom built W.S. Bailey & Co Ltd Yard No. 292 When built 1939Owners Messrs. Smith & Co Ltd Port belonging to CebuElectric Light Installation fitted by Wm. G. Jack & Co Ltd Contract No. 292 When fitted 1939Is the Vessel fitted for carrying Petroleum in bulk NoSystem of Distribution Two wire ✓Pressure of supply for Lighting 115 ✓ volts, Heating 115 ✓ volts, Power 115 ✓ 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 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 Yes ✓, is an adjustable regulating resistance fitted inseries with each shunt field Yes ✓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 Port 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 andtheir respective generators in metallic contact Yes ✓Main Switch Boards, where placed On forward bulk head of engine room Port side ✓

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 unprotectedwoodwork 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 Yes ✓, is all insulation of high dielectric strength and ofpermanently high insulation resistance Yes ✓, if semi-insulating material is used, are all conducting parts insulated from the slabwith mica or micanite or other non-hygroscopic insulating material, and the slab similarly insulated from its framework —,and is the frame effectively earthed — Are the fittings as per Rule regarding:— spacing or shielding of live partsYes ✓, accessibility of all parts Yes ✓, absence of fuses on back of board Yes ✓, proportion of omnibusbars Yes ✓, individual fuses to voltmeter, pilot or earth lamp Yes ✓, connections of switchesMain Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches Double Pole switcheswith Equalizer switch inter connected to make & break before & after main switch. All outgoing switches doublepole with D.P. fuses. Both generators protected with overload & R/C circuit breakersInstruments on main switchboard 2 ✓ ammeters 2 ✓ 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 By earthindicating lamps ✓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 ✓

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Lloyd's Register
Foundation

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

Fall of Pressure, state maximum between bus bars and any point of the installation under maximum load 2.666

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 nil

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 cables supported with metal clips spaced 6" apart. All engine room cables in steel conduit - other main cables are armoured

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 —

Joints in Cables, state if any, and how made, insulated, and protected nil

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 The installation is earthed throughout

, 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 —

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 Yes

Secondary Batteries, are they constructed and fitted as per Rule —

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 Brass Scales

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

, how are the cables led

where are the controlling switches situated —

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

Arc 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 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 central pumps except

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 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 —

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.	Amperes.	Revs. per Min.		Fuel Used.	Flash Point of Fuel.
MAIN	<u>One</u>	<u>25</u>	<u>115</u>	<u>217</u>	<u>1100</u>	<u>Diesel engine</u>	<u>Crude oil</u>	<u>Above 150° F</u>
AUXILIARY	<u>One</u>	<u>15.5</u>	<u>115</u>	<u>135</u>	<u>750</u>	<u>—</u>	<u>—</u>	<u>—</u>
EMERGENCY								
ROTARY TRANSFORMER								

GENERATOR, LIGHTING AND HEATING CONDUCTORS.

DESCRIPTION.	CONDUCTORS.			COMPOSITION OF STRAND.		TOTAL MAXIMUM CURRENT.		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.	Rule.			
MAIN GENERATOR	<u>1</u>	<u>.3024</u>	<u>37</u>	<u>.103</u>	<u>217</u>	<u>240</u>	<u>40</u>	<u>40</u>	<u>Rubber</u>	<u>L.C. Steel armoured</u>
EQUALISER CONNECTIONS	<u>1</u>	<u>.1009</u>	<u>19</u>	<u>.083</u>	<u>148</u>	<u>148</u>	<u>40</u>	<u>40</u>	<u>—</u>	<u>—</u>
AUXILIARY GENERATOR	<u>1</u>	<u>.1478</u>	<u>87</u>	<u>.072</u>	<u>135</u>	<u>152</u>	<u>40</u>	<u>40</u>	<u>—</u>	<u>—</u>
EMERGENCY GENERATOR										
ROTARY TRANSFORMER										
ENGINE ROOM	<u>1</u>	<u>.00299</u>	<u>3</u>	<u>.036</u>	<u>3.65</u>	<u>12</u>	<u>30</u>	<u>30</u>	<u>—</u>	<u>Steel conduit</u>
BOILER ROOM										
AUXILIARY SWITCHBOARDS										
ACCOMMODATION										
Bridge & Saloon Deck	<u>1</u>	<u>.00701</u>	<u>7</u>	<u>.044</u>	<u>27</u>	<u>21</u>	<u>60</u>	<u>60</u>	<u>—</u>	<u>L.C. Braided</u>
Middle Ship Circuit	<u>1</u>	<u>.00701</u>	<u>7</u>	<u>.036</u>	<u>19</u>	<u>24</u>	<u>30</u>	<u>30</u>	<u>—</u>	<u>—</u>
WIRELESS	<u>1</u>	<u>.00701</u>	<u>7</u>	<u>.036</u>	<u>16</u>	<u>24</u>	<u>120</u>	<u>120</u>	<u>—</u>	<u>L.C. Braided</u>
SEARCHLIGHT	<u>1</u>	<u>.00299</u>	<u>3</u>	<u>.036</u>	<u>5</u>	<u>12</u>	<u>60</u>	<u>60</u>	<u>—</u>	<u>—</u>
MASTHEAD LIGHT	<u>1</u>	<u>.00299</u>	<u>3</u>	<u>.029</u>	<u>.6</u>	<u>7.8</u>	<u>60</u>	<u>60</u>	<u>—</u>	<u>—</u>
SIDE LIGHTS	<u>1</u>	<u>—</u>	<u>3</u>	<u>.029</u>	<u>.6</u>	<u>7.8</u>	<u>50</u>	<u>50</u>	<u>—</u>	<u>—</u>
COMPASS LIGHTS	<u>1</u>	<u>—</u>	<u>3</u>	<u>.029</u>	<u>.4</u>	<u>7.8</u>	<u>30</u>	<u>30</u>	<u>—</u>	<u>—</u>
POOP LIGHTS	<u>1</u>	<u>—</u>	<u>3</u>	<u>.029</u>	<u>.6</u>	<u>7.8</u>	<u>120</u>	<u>120</u>	<u>—</u>	<u>—</u>
CARGO LIGHTS	<u>1</u>	<u>—</u>	<u>3</u>	<u>.029</u>	<u>1.6</u>	<u>7.8</u>	<u>40</u>	<u>40</u>	<u>—</u>	<u>—</u>
ARC LAMPS										
HEATERS										

MOTOR CONDUCTORS.

DESCRIPTION.	No. of Motors.	CONDUCTORS.			COMPOSITION OF STRAND.		TOTAL MAXIMUM CURRENT.		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.	Rule.			
BALLAST PUMP											
MAIN BILGE LINE PUMPS	<u>1</u>	<u>1</u>	<u>.06</u>	<u>19</u>	<u>.064</u>	<u>71</u>	<u>83</u>	<u>25</u>	<u>25</u>	<u>Rubber</u>	<u>Steel Conduit</u>
FIRE & BILGE GENERAL SERVICE PUMP	<u>1</u>	<u>1</u>	<u>.11680</u>	<u>37</u>	<u>.064</u>	<u>118</u>	<u>130</u>	<u>80</u>	<u>80</u>	<u>—</u>	<u>—</u>
AUX. CIR. PUMP	<u>1</u>	<u>1</u>	<u>.01046</u>	<u>7</u>	<u>.044</u>	<u>22</u>	<u>31</u>	<u>60</u>	<u>60</u>	<u>—</u>	<u>—</u>
EMERGENCY BILGE PUMP	<u>1</u>	<u>1</u>	<u>.01046</u>	<u>7</u>	<u>.044</u>	<u>25</u>	<u>31</u>	<u>68</u>	<u>68</u>	<u>—</u>	<u>—</u>
SANITARY PUMPS	<u>2</u>	<u>1</u>	<u>.01046</u>	<u>7</u>	<u>.044</u>	<u>25</u>	<u>31</u>	<u>68</u>	<u>68</u>	<u>—</u>	<u>—</u>
CIRC. SEA WATER PUMPS	<u>1</u>	<u>1</u>	<u>.06</u>	<u>19</u>	<u>.064</u>	<u>71</u>	<u>83</u>	<u>25</u>	<u>25</u>	<u>—</u>	<u>—</u>
CIRC. FRESH WATER PUMPS											
AIR COMPRESSOR	<u>1</u>	<u>1</u>	<u>.06</u>	<u>19</u>	<u>.064</u>	<u>79</u>	<u>83</u>	<u>60</u>	<u>60</u>	<u>—</u>	<u>—</u>
FRESH WATER PUMP	<u>1</u>	<u>1</u>	<u>.02214</u>	<u>7</u>	<u>.064</u>	<u>21</u>	<u>46</u>	<u>80</u>	<u>80</u>	<u>—</u>	<u>—</u>
AUTO. VAC. PUMP	<u>1</u>	<u>1</u>	<u>.00299</u>	<u>3</u>	<u>.036</u>	<u>8</u>	<u>12</u>	<u>20</u>	<u>20</u>	<u>—</u>	<u>—</u>
ENGINE TURNING GEAR											
ENGINE REVERSING GEAR											
LUBRICATING OIL PUMPS	<u>1</u>	<u>1</u>	<u>.01046</u>	<u>7</u>	<u>.044</u>	<u>27</u>	<u>31</u>	<u>60</u>	<u>60</u>	<u>—</u>	<u>—</u>
CENTRIFUGE OIL PUMP	<u>1</u>	<u>1</u>	<u>.00299</u>	<u>3</u>	<u>.036</u>	<u>9</u>	<u>12</u>	<u>56</u>	<u>56</u>	<u>—</u>	<u>—</u>
WINDLASS	<u>1</u>	<u>1</u>	<u>.11680</u>	<u>37</u>	<u>.064</u>	<u>123</u>	<u>130</u>	<u>138</u>	<u>138</u>	<u>—</u>	<u>L.C. Steel armoured</u>
WINCHES, FORWARD	<u>1</u>	<u>1</u>	<u>.11680</u>	<u>37</u>	<u>.064</u>	<u>123</u>	<u>130</u>	<u>76</u>	<u>76</u>	<u>—</u>	<u>—</u>
WINCHES, AFT	<u>1</u>	<u>1</u>	<u>.02214</u>	<u>7</u>	<u>.064</u>	<u>41</u>	<u>46</u>	<u>60</u>	<u>60</u>	<u>—</u>	<u>—</u>
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.

WILLIAM C. JACK & CO., LTD.

Electrical Engineers.

Date 2 MAR 1939

COMPASSES.

Distance between electric generators or motors and standard compass

Distance between electric generators or motors and steering compass

30ft

The nearest cables to the compasses are as follows:—

A cable carrying 25 Ampères — feet from standard compass 4 feet from steering compass.

A cable carrying 4 Ampères — feet from standard compass 10 feet from steering compass.

A cable carrying 5 Ampères — feet from standard compass 10 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 Yes

The maximum deviation due to electric currents was found to be — degrees on — course in the case of the standard compass, and nil degrees on any course in the case of the steering compass.

FOR W. S. BAILEY & CO., LTD.

W. S. Bailey

Builder's Signature. Manager 2/3/39

Is this installation a duplicate of a previous case? Not exactly If so, state name of vessel M/V Governor Wright

General Remarks (State quality of workmanship, opinions as to class, &c.) This electric installation has been

efficiently fitted on board in accordance with the rules & approved plans the materials & workmanship being sound & good.

On completion the installation was megger tested, tried under working conditions & found satisfactory

Makers test sheet for motors enclosed.

We have been advised makers test sheets for generators have been forwarded direct to London by Messrs. Electromotorin Works Hain Series N° 500371 25KW N° 500,375 15.5KW.

Notes
4/4/39

Total Capacity of Generators 40.5 Kilowatts.

The amount of Fee ... \$ 81.4 : When applied for, 23-2 1939
Travelling Expenses (if any) \$ 20 : When received, 3-4 1939
\$ 834

Chas R. Rowcliffe
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

WED 12 APR 1939

Assigned

See HKJ. J.E. 8301



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Foundation