

Rpt. 13.

No. 46631

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office: 19 MAY 1927

Date of writing Report 6.5.1927 When handed in at Local Office 16.5.1927 Port of GLASGOW.

No. in Survey held at GLASGOW. Date, First Survey 2nd Dec 1926 Last Survey 5th May 1927
Reg. Book. (Number of Visits 17)87969 on the S.S. "AYELONA" Tons { Gross 12857
Net

Built at CLYDEBANK. By whom built MESSRS J. BROWN & CO. Yard No. 515 When built 1927.

Owners THE BLUE STAR LINE LTD. Port belonging to

Electric Light Installation fitted by MESSRS JOHN BROWN & CO. LTD. Contract No. 615 When fitted 1927

System of Distribution TWO WIRE INSULATED

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 STARBOARD SIDE OF ENGINE ROOM (FLOOR LEVEL)

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 MAIN SWITCHBOARD:- IN ENGINE ROOM; REFRIG. SWITCHBOARD:- IN REFRIG. ENGINE ROOM;

EMERGENCY SWITCHBOARD:- IN EMERGENCY DYN. 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, incombustible non-absorbent materials, is all insulation of high dielectric strength and of

permanently high insulation resistance, 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 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

GENERATORS:- 1000 AMP, T.P. SALFORD CIRCUIT BREAKER WITH 2 1/2 COILS, TIME LAGS & ONE POLARISED REVERSE & MAG. BLOWOUT, MIDDLE POLE ARRANGED

FOR EQUALISING SWITCH. OUTGOING CIRCUITS:- S.P. SWITCHES & D.R. FUSES.

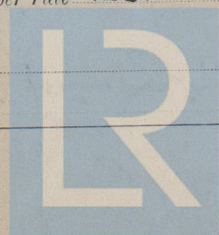
Instruments on main switchboard 5 ammeters 2 voltmeters VOLTMETER & PLUGS synchronising device for paralleling purposes.

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

SERIES WITH SWITCH FOR EACH LAMP, AND WIRE BETWEEN LAMPS CONNECTED TO EARTH THROUGH A SWITCH.

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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Foundation

W334-0167 1/2

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								
	MAIN BILGE LINE PUMPS ...								
	GENERAL SERVICE PUMP								
	EMERGENCY BILGE PUMP ...	1	.03268	19	.052	56 ✓	500	RUBBER	LEAD COVERED & BRAIDED & LEAD COVERED ARMS BRAIDED.
	SANITARY PUMP								
	CIRC. SEA WATER PUMPS ...								
	CIRC. FRESH WATER PUMPS								
	AIR COMPRESSOR								
	FRESH WATER PUMP	1	.00194	3	.029	3 ✓	100	"	LEAD COVER ARMS & BRAIDED.
	ENGINE TURNING GEAR ...								
	ENGINE REVERSING GEAR								
	LUBRICATING OIL PUMPS ...	1	"	"	"	1.4 ✓	150	"	" "
	OIL FUEL TRANSFER PUMP								
	WINDLASS								
	WINCHES, FORWARD								
	WINCHES, AFT								
	STEERING GEAR								
	WORKSHOP MOTOR	1	.00701	7	.036	20 ✓	100	"	" "
	VENTILATING FANS 1/8 H.P.	3	.00233	3	.036	5 ✓	100	"	LEAD COVERED & BRAIDED.
	" 1 "	5	"	"	"	4 ✓	180	"	" "
	" 2 1/2 "	4	"	"	"	10 ✓	120	"	" "
	" 6 1/2 "	1	.01046	7	.044	25.6 ✓	130	"	" "
	FORCED DRAUGHT FANS	2	.24630	37	.033	205 ✓	130	"	" "
	REFRIG. FANS	2	.02214	7	.064	24.7 ✓	500	"	LEAD COVERED & TAPPED JUTE FERRULES & BRAIDED.
	"	2	.01046	7	.044	24.7 ✓	100	"	" & BRAIDED.
	LAUNDRY MOTORS	3	.02214	7	.064	46 ✓	800	"	" & TAPPED JUTE FERRULES & BRAIDED.
	GALLEY "	7	.11680	37	.064	130 ✓	340	"	" & BRAIDED.
	BRINE & WATER CIRC. PUMPS	6	.06800	19	.064	68 ✓	700	"	" ARMS & BRAIDED.
	BRINE PUMP (PROVISION ROOM)	1	.00701	7	.036	14 ✓	100	"	" "
	GYMNASIUM MOTORS	2	.00194	3	.029	4 ✓	120	"	" & BRAIDED.

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

John Brown & Company, Limited

John Brown & Company, Limited
Glasgow Secretary

Electrical Engineers.

Date

COMPASSES.

Distance between electric generators or motors and standard compass 45 FEET FROM WIRELESS MACHINE.

Distance between electric generators or motors and steering compass 40 " " " "

The nearest cables to the compasses are as follows:—

A cable carrying 5 Amperes 5 feet from standard compass 8 feet from steering compass.

A cable carrying 1 Amperes 1 feet from standard compass 1 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 NIL degrees on any course in the case of the standard

compass, and NIL degrees on any course in the case of the steering compass.

John Brown & Company, Limited.

John Brown & Company, Limited
Glasgow Secretary

Builder's Signature.

Date

Is this installation a duplicate of a previous case. Yes.

If so, state name of vessel

SS. Avila

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

This installation has been fitted on board under special survey. Tested under full working conditions and found satisfactory. The workmanship was found to be good and sound.

It is submitted that

the same is suitable for

Elec. Light

John Brown & Company, Limited

19/5/27

Total Capacity of Generators 425 Kilowatts

The amount of Fee ...

£ 42.2.6.

When applied for,

5/5/27

Travelling Expenses (if any) £

When received,

12/5/27

John Brown & Company, Limited
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

GLASGOW 17 MAY 1927

Assigned

Elec. Light.



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Foundation

a. to
16/5/27

Im. 24.—Transfer.
(The Surveyors are requested not to write on or below the space for Committee's Minute.)