

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 12 JUN 1928

Date of writing Report 19 When handed in at Local Office 19 Port of NEWCASTLE-UPON-TYNE & SUNDERLAND.No. in Survey held at Sunderland. Date, First Survey 19/3/28 Last Survey 24/4/28 19
Reg. Book. Supp. (Number of Visits.....)42810 on the SS Schuytkill.Tons { Gross 8929
Net 5372Built at Sunderland By whom built W. J. Loring & Sons. Yard No. 702 When built 1928Owners Anglo American Oil Co Ltd Port belonging to SunderlandElectric Light Installation fitted by Messrs Sunderland Forge & Eng Co Ltd Contract No. 702. When fitted 1928.

System of Distribution Double Wire Distribution Box

Pressure of supply for Lighting 110 volts, Heating 110 volts, Power 110 volts.

Direct or Alternating Current, Lighting Direct Current Power Direct Current

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 in series 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 In Main 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 Yes Mechanically Coupled

Main Switch Boards, where placed 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 Yes, 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 Yes
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 Each Generator T.P. Load Rev. Current Circuit Breaker 3rd Pole acts as Equaliser Double Pole Switches & Fuses on each outgoing Circuit

Instruments on main switchboard 3 ammeters 3 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 Voltmeter
Reading either +Vc or -Vc Bus Bars to earth

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

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 ...	1	01 ✓	7	044	31.77	120	Maconite	L.C.A&B
	Fire BILGE PUMP ...	1	0225 ✓	7	064	72	112	Varn'd Cambric	L.C.A&B
	SANITARY PUMP								
	CIRC. SEA WATER PUMPS ...	1	15 ✓	37	072	240	150	Varn'd Cambric	L.C.A&B
	CIRC. FRESH WATER PUMPS ...								
	AIR COMPRESSOR	1	12 ✓	37	064	200	180	Varn'd Cambric	L.C.A&B
	FRESH WATER PUMP								
	ENGINE TURNING GEAR ...	1	1 ✓	19	083	160	200	Varn'd Cambric	L.C.A&B
	ENGINE REVERSING GEAR ...								
	LUBRICATING OIL PUMPS ...	2	0225 ✓	7	064	64	170	Varn'd Cambric	L.C.A&B
	OIL FUEL TRANSFER PUMP ...								
	WINDLASS								
	WINCHES, FORWARD								
	WINCHES, AFT								
	STEERING GEAR—								
	(a) MOTOR GENERATOR ...								
	(b) MAIN MOTOR	1	12 ✓	37	064	216	270	Varn'd Cambric	L.C.A&B
	WORKSHOP MOTOR								
	VENTILATING FANS								
	Sharples Machines	2	01 ✓	7	044	20	90	Maconite	L.C.A&B
	Galley Fuel Motor	1	01 ✓	7	044	16	230	Maconite	L.C.A&B
	Crane	1	01 ✓	7	044	28	170	Maconite	L.C.A&B
	Clean Oil Pump	1	002 ✓	3	029	8	60	Maconite	L.C.A&B
	Jackpot Coding Pump	2	06 ✓	19	064	136	168	Varn'd Cambric	L.C.A&B
	Refrig Motor	1	06 ✓	19	064	96	250	Varn'd Cambric	L.C.A&B
	Lathe	1	007 ✓	7	036	27	80	Maconite	L.C.A&B
	Vert Driller	1	007 ✓	7	036	27	74	Maconite	L.C.A&B
	Grindstone	1	007 ✓	7	036	18	70	Maconite	L.C.A&B

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.

p.pro. THE SUNDERLAND FORGE & ENGINEERING CO. LTD. Electrical Engineers.

Date 21/5/28.

COMPASSES.

Distance between electric generators or motors and standard compass

232 feet

Distance between electric generators or motors and steering compass

224 feet

The nearest cables to the compasses are as follows:-

A cable carrying 655 Ampères 3 feet from standard compass 10 feet from steering compass.

A cable carrying 18 Ampères 10 feet from standard compass. Led into ~~steering~~ steering compass.

A cable carrying 18 Ampères Led into ~~steering~~ standard compass 8 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

course in the case of the standard

compass, and nil degrees on

all

course in the case of the steering compass.

SIR JAMES LAING & SONS, LIMITED.

James Laing

Builder's Signature.

Date

26th May 1928.

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.)

The above installation is in accordance with the Society's Rules. The vessel is eligible in my opinion for notation elec light wireless

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

W.T. Badger
16/6/28

Total Capacity of Generators 120 Kilowatts.

The amount of Fee

£ 33

When applied for,

2 May 1928

When received,

11 May 1928

Travelling Expenses (if any) £

W.T. Badger

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

Elmer Lytle



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