

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 21 JAN 1928

Date of writing Report 19 When handed in at Local Office 20 JAN 1928 Port of NEWCASTLE-ON-TYNE SUNDERLAND.

No. in Survey held at Sunderland. Date, First Survey 13 Dec/27 Last Survey 5 Jan 1928
Reg. Book. Subh. (Number of Visits.....)
42754. on the S.S. Stonegate. Tons { Gross 5044 Net 3107
Built at Sunderland. By whom built W. Dooxford & Sons Ltd. Yard No. 585 When built 1927
Owners J. & H. Scott Shipping Co Ltd Port belonging to London.
Electric Light Installation fitted by The Sunderland Forgerong Co Ltd Contract No. When fitted 1927

RETAIN

System of Distribution DOUBLE WIRE
Pressure of supply for Lighting 110 volts, Heating — volts, Power — volts.
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 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 —, is an adjustable regulating resistance fitted in series with each shunt field —
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 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.

Main Switch Boards, where placed MAIN 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 micaite 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. DOUBLE POLE SWITCH & FUSES FOR MAIN GENERATOR. SINGLE POLE SWITCH & DOUBLE POLE FUSES FOR EACH OUTGOING CIRCUIT.

Instruments on main switchboard 1 ammeters 1 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. EARTH LAMP SWITCH & FUSE ON EACH POLE

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.

Cables: Single, twin, concentric, or multicore SINGLE & TWIN 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 4.7.

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 YES.

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 MAINS & MACHINERY SPACES: LEAD COVERED, ARMOURED & BRAIDED SECURED BY GALV IRON CLIPS. ACCOMM: LEAD COVERED & BRAIDED SECURED BY 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 YES.

Joints in Cables, state if any, and how made, insulated, and protected NOT MADE.

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 YES.

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 YES.

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 YES.

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

how are the cables led YES.

where are the controlling switches situated YES.

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

Arc Lamps, other than searchlight lamps, No. of YES, 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 and 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.	Amps.	Revs. per Min.		Fuel Used.	Flash Point of Fuel.
MAIN	1	8	110	72.7	380	STEAM ENGINE		
AUXILIARY								
EMERGENCY								
ROTARY TRANSFORMER								

LIGHTING AND HEATING CONDUCTORS.

Ref. No.	DESCRIPTION.	No. of Conductors.	Effective Area of each Conductor. Sq. Ins.	COMPOSITION OF STRAND.		Total Maximum Current. Amps.	Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
				No.	Diameter.				
	MAIN GENERATOR	2	.06000	19	.064	72.7	40	V.I.R.	LEAD COVERED ARMOURED & BRAIDED
	EQUALISER CONNECTIONS								
	AUXILIARY GENERATOR								
	EMERGENCY GENERATOR								
	ROTARY TRANSFORMER								
	AUXILIARY SWITCHBOARDS								
	ENGINE ROOM	2	.00701	7	.036	7.0	30	V.I.R.	LEAD COVERED ARMOURED & BRAIDED
	BOILER ROOM								
	FORWARD ACCOMMODATION & NAVIGATION	2	.02214	7	.064	17.8	320	V.I.R.	LEAD COVERED ARMOURED & BRAIDED
	ENG'RS & A/E ACCOMM.	2	.00701	7	.036	10.2	112	V.I.R.	LEAD COVERED ARMOURED & BRAIDED
	WIRELESS	2	.00701	7	.036	15	340	V.I.R.	LEAD COVERED ARMOURED & BRAIDED
	SEARCHLIGHT								
	MASTHEAD LIGHT	2	.00194	3	.029	5.4	576	V.I.R.	LEAD COVERED ARMOURED & BRAIDED
	SIDE LIGHTS	2	.00194	3	.029	5.4	80	V.I.R.	LEAD COVERED & BRAIDED
	COMPASS LIGHTS	2	.00194	3	.029	5.2	20	V.I.R.	LEAD COVERED & BRAIDED
	POOP LIGHTS	2	.00299	3	.036	3.0	320	V.I.R.	LEAD COVERED ARMOURED & BRAIDED
	CARGO LIGHTS	2	.00299	3	.036	3.6	256	V.I.R.	LEAD COVERED ARMOURED & BRAIDED
	ARC LAMPS								
	HEATERS								

MOTOR CONDUCTORS.

Ref. No.	DESCRIPTION.	No. of Motors.	Effective Area of each Conductor. Sq. Ins.	COMPOSITION OF STRAND.		Total Maximum Current. Amps.	Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
				No.	Diameter.				
	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.

By THE SUNDERLAND FORGE & ENGINEERING CO. LTD Electrical Engineers. Date 12th Jan. 1928.

H. Staffur

COMPASSES.

Distance between electric generators or motors and standard compass 128 FEET.

Distance between electric generators or motors and steering compass 120 FEET.

The nearest cables to the compasses are as follows:—

A cable carrying 5.2 Amperes 8 feet from standard compass 8 feet from steering compass.

A cable carrying .2 Amperes 8 feet from standard compass LED INTO feet from steering compass.

A cable carrying _____ Amperes LED INTO feet from 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.

WILLIAM DOXFORD & SONS Limited

H. Gallacher Builder's Signature. Date 16th JAN. 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 electric light wireless

It is submitted that this vessel is eligible for THE RECORD. elec. light
W.T.
23/1/28

Total Capacity of Generators 8 Kilowatts.

The amount of Fee ... £ 8 : : { When applied for, 10 Jan 1928
 Travelling Expenses (if any) £ : : { When received, 28-1-28

W.T. Badger
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute _____

Assigned _____

Im. 1. 20. — Transfer. (The Surveyors are requested not to write on or bring the space for Committee's Minute.)



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