

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

27 MAY 1926

Date of writing Report 26/5/1926 When handed in at Local Office Hull Port of Hull

No. in Survey held at Hull Date, First Survey 12-4-26 Last Survey 3-5-1926
 Reg. Book. (Number of Visits. eight) Gross 1032
 on the steam trawler "ISLANDE" Tons Net

Built at Caen By whom built Chantiers Navals Francais No. 72 When built 1926

Owners J. Huret. Port belonging to Bordeaux.

Electric Light Installation fitted by Sunderland Forge & Eng. Co. Ltd. Liverpool Contract No. When fitted 1926

System of Distribution Two 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 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 NOT SO ARRANGED., is an adjustable regulating resistance fitted in series with each shunt field —

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 IN 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 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 IN 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, incombustible 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 connected to one pole insulated from the slab with mica or micanite and the slab similarly insulated from its framework 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 DOUBLE POLE CHANGE-OVER.

SWITCHES & DP. FUSES FOR GENERATORS & WIRELESS INSTALLATION. { SINGLE POLE CHANGE OVER SWITCH & FUSES FOR EACH OUTGOING.

CIRCUIT.

Instruments on main switchboard 2 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

Section and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule YES.

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Insulation of Cables, state type of cables, single or twin SINGLE & TWIN are the cables insulated and protected as per Tables III or IV of the Rules YES

Fall of Pressure, state maximum between bus bars and any point of the installation under maximum load 4.5

Cable Sockets and other connections, are the ends of all cables having a sectional area of 0.007 square inch and above provided with soldering socket 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 NONE FITTED

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 LEAD COVERED CABLE SECURED WITH BRASS CLIPS FOR AFT MAINS, ACCOMM & MACHINERY SPACES. LEAD COVERED ARMORED & BRAIDED CABLES SECURED WITH G.I. CLIPS FOR FORWARD MAINS ETC.
 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 VI 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 NONE 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 Positions, 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 _____
 are their connections made as per Rule _____

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 are separate screens provided for the use of oil and electric side lights _____
 are separate oil lanterns provided for the mast head lights and side lights _____

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 _____
 are any fittings placed in spaces where inflammable or explosive dust or gases are liable to be present, if so, how are they protected _____
 how are the cables led _____
 where are the controlling switches situated _____

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

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 _____, are the coils self-contained and readily removable for replacement _____
 are the brushes, brush holders, terminals and lubricating arrangements as per Rule _____, are the motors placed in well-ventilated compartments in which inflammable gases cannot accumulate and clear of all inflammable material _____
 are they protected from mechanical injury and damage from water, steam or oil _____ are their axis of rotation fore and aft _____
 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 as per Rule _____

Lightning Conductors, where lightning conductors are required, are these fitted as per Rule _____

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.	Ampères.	Revs. per Min.		Fuel Used.	Flash Point of Fuel.	
MAIN	1	64	110	54.1	36.3	STEAM ENGINE			
AUXILIARY	—					STEAM ENGINE			
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. Amperes.	Approximate Length. (Lead and Return). Feet.	Insulated with	HOW PROTECTED.
				No.	Diameter.				
	MAIN GENERATORS	2	.03860	13	.032	54.1	30	V.I.R.	LEAD COVERED.
	AUXILIARY GENERATOR	—	.03860	13	.032	36.3	30		
	EMERGENCY GENERATOR	—							
	ROTARY TRANSFORMER	—							
	AUXILIARY SWITCHBOARDS	—							
	ENGINE ROOM	—							
	BOILER ROOM & ENGRS ACCOMM.	2	.00401	4	.036	11.8	30	V.I.R.	LEAD COVERED.
	DECK LIGHTS	2	.00701	4	.036	12.7	104	V.I.R.	
	FORECASTLE ACCOMM.	2	.00701	4	.036	4.3	468	V.I.R.	LEAD COVERED ARMORED & BRAIDED
	NAVIGATION & MIDSHIP ACCOMM.	2	.00701	4	.036	9.9	169	V.I.R.	LEAD COVERED
	STANDBY CIRCUIT.	2	.00401	4	.036	12.7	215	V.I.R.	LEAD COVERED.
	STERN LIGHT.	2	.00322	1	.064	.9	262	V.I.R.	LEAD COVERED
	WIRELESS	2	.00701	4	.036	15	196	V.I.R.	LEAD COVERED.
	SEARCHLIGHT	—							
	MASTHEAD LIGHT	2	.00322	1	.064	.9	281	V.I.R.	LEAD COVERED ARMORED & BRAIDED.
	SIDE LIGHTS	2	.00322	1	.064	.9	60	V.I.R.	LEAD COVERED
	COMPASS LIGHTS	2	.00152	1	.1044	.2	20	V.I.R.	LEAD COVERED.
	POOP LIGHTS	—							
	CARGO LIGHTS	—							
	ARC LAMPS	—							
	HEATERS	—							

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	—							
	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	—							
	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.

The Sunderland Forge & Engineering Co. Ltd. Electrical Engineers.

Date 14. 5. 26

M. Arhat

COMPASSES.

Distance between electric generators or motors and standard compass 70 FEET

Distance between electric generators or motors and steering compass 60 FEET.

The nearest cables to the compasses are as follows:—

A cable carrying 2.9 Ampères 10 feet from standard compass 10 feet from steering compass.

A cable carrying .2 Ampères 10 feet from standard compass LED INTO feet from steering compass.

A cable carrying .2 Ampères LED INTO 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. 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 no degrees on any course in the case of the standard compass, and no degrees on any course in the case of the steering compass.

FOR AMOS & SMITH LTD.

H. Green

CONTRACTORS
 Builder's Signature.

Date 26/5/1926

MANAGER.

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 electrical installation of this vessel has been fitted on board under special survey, tried under working conditions, & found in good order. It is eligible in my opinion to have record of "Electric Light".

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

J.W.D.
 27/5/26

Total Capacity of Generators 6 Kilowatts

The amount of Fee ... £ 3 : - : When applied for, 3/5 19 26

Travelling Expenses (if any) £ : : When received, 3/5 19 26

P. Fitzgerald
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUES. 8 JUN 1926

Assigned *Elec Light*

Im. 9. 24. — Transact.
 (The Signatories are requested not to write on or below the space for Committee's Minutes.)



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