

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

27 MAY 1926

Date of writing Report

19

When handed in at Local Office

26/5/26 Port of

Hull

No. in Survey held at

Hull

Date, First Survey

12-4-26

Last Survey

3-5-

1926

Reg. Book.

on the steam trawler "ISLANDE"

(Number of Visits. eight)

Tons

Gross

1032

Net

Built at

Caen

By whom built

Chantiers Naval Français

Hull 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.

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

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

volts meters

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.

Insulation of Cables, state type of cables, single or twin 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 ARMoured & 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 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 VI 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 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 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, are separate screens provided for the use of oil and electric side lights YES, are separate oil lanterns provided for the mast head lights and side lights 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 1, whether fixed or portable YES, are their fittings as per Rule YES.

Arc Lamps, other than searchlight lamps, No. of 1, 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 axis 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 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.	Ampères.	Revs. per Min.		Fuel Used.	Flash Point of Fuel.	
MAIN	1	64	110	541	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	541	30	V.I.R.	LEAD COVERED.
	AUXILIARY GENERATOR	—							
	EMERGENCY GENERATOR	—							
	ROTARY TRANSFORMER	—							
	AUXILIARY SWITCHBOARDS	—							
	ENGINE ROOM	2	.00401	Y	.036	118	30	V.I.R.	LEAD COVERED.
	BOILER ROOM	2	.00401	Y	.036	118	30	V.I.R.	LEAD COVERED.
	ENG'RS ACCOMM.	2	.00701	Y	.036	127	104	V.I.R.	LEAD COVERED ARMoured & BRAIDED
	DECK LIGHTS	2	.00701	Y	.036	127	104	V.I.R.	LEAD COVERED ARMoured & BRAIDED
	FORECASTLE ACCOMM.	2	.00701	Y	.036	127	104	V.I.R.	LEAD COVERED ARMoured & BRAIDED
	NAVIGATION & MIDSHIP	2	.00701	Y	.036	127	169	V.I.R.	LEAD COVERED
	ACCOMM.	2	.00701	Y	.036	127	169	V.I.R.	LEAD COVERED
	STANDBY CIRCUIT	2	.00701	Y	.036	127	215	V.I.R.	LEAD COVERED.
	STERN LIGHT	2	.00322	1	.064	.9	262	V.I.R.	LEAD COVERED
	WIRELESS	2	.00701	Y	.036	15	196	V.I.R.	LEAD COVERED.
	SEARCHLIGHT	—							
	MASTHEAD LIGHT	2	.00322	1	.064	.9	281	V.I.R.	LEAD COVERED ARMoured & 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. A. H. A. S.

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 H.R.

P. Fitzgerald

Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUES. 8 JUN 1926

Assigned

Elec Light



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Lloyd's Register
Foundation