

Rpt. 13.

No 89819

# REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

Date of writing Report

19

When handed in at Local Office

1 MAR 1926

Port of

LIVERPOOL

No. in Survey held at

FLEETWOOD

Date, First Survey

13<sup>th</sup> Jan

Last Survey

24<sup>th</sup> Feb 1926

Reg. Book.

08097

on the

ST "NANCY HAGUE"

(Number of Visits.....)

Tons

Gross 299.

Net 121.

Built at

MIDDLESBRO'

By whom built

SMITH'S DOCK CO. LD. Yard No.

When built 1911-6.

Owners

NEW DOCKS STEAM TRAWLING CO (FLT) LD.

Port belonging to

FLEETWOOD

Electric Light Installation fitted by

R. BARRON, LD.

FLEETWOOD.

Contract No.

When fitted 1926.

## System of Distribution

Two Wire.

Pressure of supply for Lighting

100.

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

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

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

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

YES.

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

/

, 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

DOUBLE POLE SWITCHES &amp; FUSES

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

/

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

008900-008903-036712



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 **YES**.

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 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 **STEEL WIRE ARMoured SUPPORTED BY GALVANIZED IRON CLIPS & SADDLES IN ALL EXPOSED POSITIONS. TWIN LEAD COVERED IN CABINS & WHEEL HOUSE.**

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 **LOOPING SYSTEM**.

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 **BRASS**.

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 **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 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.	Amperes.		Revs. per Min.	Fuel Used.
MAIN ...	1	3	110	30	500	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. Amperes.	Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
				No.	Diameter.				
	MAIN GENERATOR...	2	'0225	7	'064	30	16	V.I.R	CONDUIT.
	AUXILIARY GENERATOR	✓							
	EMERGENCY GENERATOR	✓							
	ROTARY TRANSFORMER...	✓							
	AUXILIARY SWITCHBOARDS	✓							
	ENGINE ROOM	2	'002	3	'029	1.5	70	LEAD COVERED	STEEL WIRE ARMoured
	BOILER ROOM	2	'002	3	'029	1.5	32	---	---
	WIRELESS	✓							
	SEARCHLIGHT	✓							
	MASTHEAD LIGHT...	6	'0015	1	'044	1	310	LEAD COVERED	STEEL WIRE ARMoured
	SIDE LIGHTS...	2	'0015	1	'044	1.5	50	LEAD COVERED	FLEX.
	COMPASS LIGHTS...	✓							
	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.

P. P. Robert Barron Ltd.

Electrical Engineers.

Date February 24<sup>th</sup> 1926

#### COMPASSES.

Distance between electric generators or motors and standard compass

Distance between electric generators or motors and steering compass

The nearest cables to the compasses are as follows:—

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

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

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

Have the compasses been adjusted with and without the electric installation at work at full power.

Has the effect of switching on and off circuits, motors and other electro-magnetic apparatus within the vicinity of the compasses been noted

The maximum deviation due to electric currents was found to be degrees on course in the case of the standard compass, and degrees on course in the case of the steering compass.

Builder's Signature.

Date

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 has been fitted on board in accordance with the Society's Rules and requirements.

The materials and workmanship are of a good quality and when examined under full working conditions were found satisfactory in every respect.

The vessel is eligible in my opinion to have the notation "ELECTRIC LIGHT" ported in Register Book.

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

Electric Light.

J. W. Leicester  
4/3/26

Total Capacity of Generators 3 Kilowatts

The amount of Fee

£ 3 : 0 : 0

When applied for,

1 MAR. 1926

Travelling Expenses (if any) £

- 16 : 0

When received,

6/3/26

J. W. Leicester  
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

LIVERPOOL - 2 MAR. 1926

Assigned

Electric Light

When fee is paid.

177



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