

Rpt. 13.

No. 45495

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

18 MAY 1935

Date of writing Report

19

When handed in at Local Office

19

Port of

Received at London Office

No. in Survey held at
Reg. Book.

Hull

Date, First Survey

29th Apr. 1935

Last Survey

15th May 1935

(Number of Visits.....)

on the Steel S.S. "Scalby Wyke"

Tons

Gross 440.23

Net 170.30

Built at

Selby

By whom built

Bochrane & Sons Ltd.

Yard No. 1138

When built 1935.5

Owners

West Dock Steam Fishing Co. Ltd.

Port belonging to

Hull.

Electric Light Installation fitted by

Humber Electrical Co. Ltd.

Contract No.

When fitted 1935.

Is the Vessel fitted for carrying Petroleum in bulk

No.

System of Distribution

Two wire

Pressure of supply for Lighting

100

volts, Heating

100

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

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

Starboard side of 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

Yes

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

Beside generator 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

Yes

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-hygrosopic 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

D.P. linked switch

for generator. Outgoing circuits controlled by D.P. switches and protected by fuses on each pole.

Instruments on main switchboard

One

ammeters

One

volts

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 lamps.

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

Lloyd's Register
Foundation

005344-005352-0202 1/2

Cables: Single, twin, concentric or multicore both 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 1 Volt.

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 none.

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 Armoured cables with g.I. clips.
Lead covered cables with brass clips.

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 VIII Yes.

Refrigerated Chambers, if lights are fitted, are the cables and fittings in accordance with the special requirements none.

Joints in Cables, state if any, and how made, insulated, and protected No joints.

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 Through earth lamps.

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 none.

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 none.

Secondary Batteries, are they constructed and fitted as per Rule ✓.

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 none.

are any fittings placed in spaces where inflammable or explosive dust or gases are liable to be present, if so, how are they protected none.

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 ✓.

Are 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 axes 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 and fitted 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 ...	<u>One</u>	<u>8</u>	<u>100</u>	<u>80</u>	<u>400</u>	<u>Steam Engine.</u>		
AUXILIARY ...								
EMERGENCY ...								
ROTARY TRANSFORMER								

GENERATOR, LIGHTING AND HEATING CONDUCTORS.

DESCRIPTION.	CONDUCTORS.		COMPOSITION OF STRAND.		TOTAL MAXIMUM CURRENT AMPERES.		Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
	No. per Pole.	Total Effective Area per Pole Sq. Ins.	No.	Diameter.	In Circuit.	Rule.			
MAIN GENERATOR ...	<u>2</u>	<u>0.06</u>	<u>19</u>	<u>0.064</u>	<u>70</u>	<u>83</u>	<u>20</u>	<u>r.l.R.</u>	
EQUALISER CONNECTIONS ...									
AUXILIARY GENERATOR ...									
EMERGENCY GENERATOR ...									
ROTARY TRANSFORMER ...									
ENGINE ROOM ...									
BOILER ROOM ...	<u>1</u>	<u>0.0045</u>	<u>7</u>	<u>0.029</u>	<u>4</u>	<u>18.2</u>	<u>70</u>	<u>"</u>	<u>L.C. & armoured.</u>
AUXILIARY SWITCHBOARDS ...									
Navigation Mains	<u>1</u>	<u>0.007</u>	<u>7</u>	<u>0.036</u>	<u>3</u>	<u>24</u>	<u>150</u>	<u>"</u>	<u>"</u>
ACCOMMODATION M. ship ...	<u>1</u>	<u>0.0221</u>	<u>7</u>	<u>0.064</u>	<u>20</u>	<u>46</u>	<u>150</u>	<u>"</u>	<u>"</u>
" Forward	<u>1</u>	<u>0.0045</u>	<u>7</u>	<u>0.029</u>	<u>6</u>	<u>18.2</u>	<u>240</u>	<u>"</u>	<u>"</u>
" aft	<u>1</u>	<u>0.007</u>	<u>7</u>	<u>0.036</u>	<u>10</u>	<u>24</u>	<u>100</u>	<u>"</u>	<u>"</u>
WIRELESS ...	<u>1</u>	<u>0.007</u>	<u>7</u>	<u>0.036</u>	<u>10</u>	<u>24</u>	<u>155</u>	<u>"</u>	<u>"</u>
SEARCHLIGHT ...	<u>1</u>	<u>0.0015</u>	<u>1</u>	<u>0.044</u>	<u>0.5</u>	<u>6.1</u>	<u>260</u>	<u>"</u>	<u>Lat. Type Sheathed</u>
MASTHEAD LIGHT ...	<u>1</u>	<u>0.0017</u>	<u>40</u>	<u>0.0076</u>	<u>0.5</u>	<u>5</u>	<u>16</u>	<u>"</u>	<u>"</u>
SIDE LIGHTS ...	<u>1</u>	<u>0.0015</u>	<u>1</u>	<u>0.044</u>	<u>0.5</u>	<u>6.1</u>	<u>12</u>	<u>"</u>	<u>"</u>
COMPASS LIGHTS ...	<u>1</u>	<u>0.0015</u>	<u>1</u>	<u>0.044</u>	<u>0.5</u>	<u>6.1</u>	<u>80</u>	<u>"</u>	<u>L.C. & armoured</u>
POOP LIGHTS ...	<u>1</u>	<u>0.0015</u>	<u>1</u>	<u>0.044</u>	<u>0.5</u>	<u>6.1</u>	<u>150</u>	<u>"</u>	<u>L.C. & armoured</u>
CARGO LIGHTS ...	<u>1</u>	<u>0.0045</u>	<u>7</u>	<u>0.029</u>	<u>5</u>	<u>18.2</u>	<u>150</u>	<u>"</u>	<u>"</u>
ARC LAMPS ...	<u>1</u>	<u>0.007</u>	<u>7</u>	<u>0.036</u>	<u>10</u>	<u>24</u>	<u>20</u>	<u>"</u>	<u>L.C.</u>
HEATERS ...									

MOTOR CONDUCTORS.

DESCRIPTION.	No. of Motors.	CONDUCTORS.		COMPOSITION OF STRAND.		TOTAL MAXIMUM CURRENT AMPERES.		Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
		No. per Pole.	Total Effective Area per Pole Sq. Ins.	No.	Diameter.	In Circuit.	Rule.			
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.

For THE HUNTER ELECTRICAL ENGINEERING Co.

W.B. Platt

Electrical Engineers.

Date

COMPASSES.

Distance between electric generators or motors and standard compass

40 ft

Distance between electric generators or motors and steering compass

The nearest cables to the compasses are as follows:—

A cable carrying 0.5 Ampères to feet from standard compass feet from steering compass.

A cable carrying 0.5 Ampères to 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 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 COCHRANE & SONS, LTD.

W.B. Platt

DIRECTOR

Builder's Signature.

Date 15 MAY 1935

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 and found good. It is eligible in my opinion, to have record of "Electric Light".

Noted
L.Y.
21/5/35.

Total Capacity of Generators

8

Kilowatts.

The amount of Fee

£ 4 : 0 :

When applied for.

17 MAY 1935

Travelling Expenses (if any) £ :

When received.

28.6.35

L. Knoff

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 24 MAY 1935

Assigned

See minute
on F.B. Rpt.



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Foundation