

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

18 MAY 1935

17 MAY 1935

Received at London Office

Date of writing Report _____ When handed in at Local Office _____ Port of HULL

No. in Survey held at Skull Date, First Survey 29th Apr. 1935 Last Survey 15th May 1935
 Reg. Book. _____ (Number of Visits 5)

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 Skull

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

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 _____, 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 _____ 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-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

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 S.P. switches and protected by fuses on each pole.

Instruments on main switchboard One ammeters One 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 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



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 None, 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.	Amps.	Revs. per Min.		Fuel Used.	Flash Point of Fuel.
MAIN	One	8	100	80	400	Steam Engine.		
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	2	0.06	19	0.064	70	83	20	R.I.P.	
EQUALISE CONNECTIONS									
AUXILIARY GENERATOR									
EMERGENCY GENERATOR									
ROTARY TRANSFORMER									
ENGINE ROOM									
BOILER ROOM	1	0.0045	7	0.029	4	18.2	70	"	L.C. & armoured.
AUXILIARY SWITCHBOARDS									
Navigation Mains	1	0.007	7	0.036	3	24	150	"	"
ACCOMMODATION M. ship	1	0.0271	7	0.064	20	46	150	"	"
" Forward	1	0.0045	7	0.029	6	18.2	240	"	"
" aft	1	0.007	7	0.036	10	24	100	"	"
WIRELESS	1	0.007	7	0.036	10	24	155	"	"
SEARCHLIGHT	1	0.0015	1	0.044	0.5	6.1	200	"	Lat. Type Sheathed
MASTHEAD LIGHT	1	0.0017	40	0.0076	0.5	5	16	"	"
SIDE LIGHTS	1	0.0015	1	0.044	0.5	6.1	12	"	"
COMPASS LIGHTS	1	0.0015	1	0.044	0.5	6.1	80	"	L.C. & armoured.
POOP LIGHTS	1	0.0015	1	0.044	0.5	6.1	150	"	L.C. & armoured.
CARGO LIGHTS	1	0.0045	7	0.029	5	18.2	150	"	"
ARC LAMPS	1	0.007	7	0.036	10	24	20	"	L.C.
HEATERS	1	0.007	7	0.036	10	24	20	"	"

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 HUMBER ELECTRICAL ENGINEERING Co.

W.B. Platt Proprietor

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.

A. Cochran 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 by L.V. 21/5/35.

Total Capacity of Generators *8* Kilowatts.

The amount of Fee ... £ *4 : 0* : *17 MAY 1935*

Travelling Expenses (if any) £ : : *28.6.35*

S. Knoffatt
Surveyor to Lloyd's Register of Shipping.

Committee's Minute *FRI. 24 MAY 1935*

Assigned *See minute on F.B. Rpt.*

1m.9.30.—Transfer.
(The Surveyors are requested not to write on or below the space for Committee's Minute.)



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