

# REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office.....

Date of writing Report... 14-10-1949 When handed in at Local Office... 25 Oct 1949 Port of... IPSWICH

No. in Survey held at... LOWESTOFT... Date, First Survey... 24 August... Last Survey... 6-10-1949  
Reg. Book. (Number of Visits... 218...)

on the... MOTOR TRAWLER "BOSTON SWALLOW" Tons { Gross... Net...

Built at... LOWESTOFT By whom built... RICHARDS IRONWORKS Yard No. 384 When built... 1949

Owners... BOSTON DEEP SEA & ICE FISHING Co. Ltd Port belonging to... LOWESTOFT

Electrical Installation fitted by... MANN EGBERTON LD Contract No. ✓ When fitted... 1949

Is vessel fitted for carrying Petroleum in bulk... No Is vessel equipped with D.F. No E.S.D. Yes Gy.C. No Sub.Sig. No

Have plans been submitted and approved... YES System of Distribution... TWO WIRE Voltage of supply for Lighting... 230

Heating... 220 Power... ✓ Direct or Alternating Current, Lighting... DIRECT Power... ✓ If Alternating Current state periodicity... Prime Movers,

has the governing been tested and found as per Rule when full load is suddenly thrown on and off... YES Are turbine emergency governors fitted with a

trip switch as per Rule... ✓ Generators, are they compound wound... YES, are they level compounded under working conditions... YES,

if not compound wound state distance between generators... and from switchboard... Where more than one generator is fitted are they

arranged to run in parallel... ✓, are shunt field regulators provided... YES Is the compound winding connected to the negative or positive pole

NEGATIVE Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing... ✓ Have certificates of

test for machines under 100 kw. been supplied... YES and the results found as per rule... YES Are the lubricating arrangements and the construction

of the generators as per rule... YES Position of Generators... ENGINE ROOM STARB. SIDE

is the ventilation in way of generators satisfactory... YES are they clear of inflammable material... YES, if situated

near unprotected combustible material state distance from same horizontally... and vertically... are the generators protected from mechanical

injury and damage from water, steam and oil... YES, are the bedplates and frames earthed... YES and the prime movers and generators in metallic

contact... YES Switchboards, where are main switchboards placed... ENGINE ROOM

are they in accessible positions, free from inflammable gases and acid fumes... YES, are they protected from mechanical injury and damage from water, steam

and oil... YES, if situated near unprotected combustible material state distance from same horizontally... and vertically... what insulation

material is used for the panels... SYMDAY'S, if of synthetic insulating material is it an Approved Type... YES, if of

semi-insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule... ✓ Is the frame effectually earthed... YES

Is the construction as per Rule... YES, including accessibility of parts... YES, absence of fuses on the back of the board... YES, individual fuses

to pilot and earth lamps, voltmeters, etc... YES locking of screws and nuts... YES, labelling of apparatus and fuses... YES, fuses on the "dead"

side of switches... YES Description of Main Switchgear for each generator and arrangement of equaliser switches... DOUBLE POLE

and for each outgoing circuit... DOUBLE POLE

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule... YES Instruments on main switchboard... ONE

ammeters... ONE voltmeters... ✓ synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to the

equaliser connection... ✓ Earth Testing, state means provided... EARTH LAMPS

Switches, Circuit Breakers and Fuses, are they as per Rule... ✓, are the fuses an approved type... YES, are all fuses labelled as

per Rule... YES If circuit breakers are provided for the generators, at what overload current did they open when tested... ✓, are the reversed current

protection devices connected on the pole opposite to the equaliser connection... ✓, have they been tested under working conditions, and at what current

did they operate... ✓ Joint Boxes, Section Boards and Distribution Boards, is the construction and position as per Rule... YES

Cables, are they insulated and protected as per the appropriate Tables of the Rules... YES, if otherwise than as per Rule are they of an approved type... ✓

state maximum fall of pressure between bus bars and any point under maximum load... 1 VOLT, are the ends of all cables having a sectional area of 0.04

square inch and above provided with soldering sockets... YES Are paper insulated and varnished cambric insulated cables sealed at the ends... ✓

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Are all lead sheaths, armouring and conduits effectually bonded and earthed. YES Refrigerated chambers, are the cables and fittings as per Rule. ✓

Are all cables passing through decks and watertight bulkheads provided with deck tubes or watertight glands. YES, where unarmoured cables pass through beams, etc., are the holes effectively bushed. YES and with what material. LEAD Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule. YES Emergency Supply, state position. ✓

and method of control. ✓

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, weatherproof.....YES Are fittings installed where readily combustible materials or inflammable or explosive dust or gases are likely to be present.....No....., if so, how are they protected.....✓

and where are the controlling switches fitted....., are all fittings suitably ventilated....., are all fittings and accessories constructed and installed as per Rule..... Searchlight Lamps, No. of....., whether fixed or portable....., are their fittings as per Rule..... Heating and Cooking, is the general construction as per Rule.....

are the frames effectually earthed....., are heaters in the accommodation of the convection type..... **Motors**, are all motors constructed and installed as per Rule..... and placed in well-ventilated compartments in which inflammable gases cannot accumulate and free from damage from water, steam and oil....., if situated near unprotected combustible material state minimum distance from same horizontally..... and vertically..... **Are** motors coupled to oil fuel transfer and unit pressure pumps capable of being stopped from a position accessible in the event of fire in the pump compartment.....

Have motors of 100 BHP and over been inspected by the Surveyors during manufacture and testing..... Have certificates of test for motors under 100 BHP intended for essential services been supplied and the results found as per Rule..... Control Gear and Resistances, are they constructed and fitted as per Rule..... Lightning Conductors, where required are they fitted as per Rule..... Ships carrying Oil having a Flash Point

less than 150° F. Have all the special requirements of the Rules for such ships been complied with....., are all fuses of the cartridge type..... are they of an approved type..... Are the fittings for pump rooms, 'tween deck spaces, etc., in accordance with the special requirements for such ships..... Are the cables lead covered as per Rule..... Spare Gear, if the vessel is for open sea service have spares been provided as per Rule..... YES., are they suitably stored in dry situations..... Insulation Tests, has the insulation resistance of all circuits and apparatus been tested and found satisfactory..... YES..

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 ...	ONE	15.0	220	68	1000	AUX. DIESEL ENGINE	DIESEL	ABOVE 150°F.
AUX.	ONE	10	220	45.5	1000	BELT FROM MAIN ENGINE	D <sub>0</sub>	D <sub>2</sub>
EMERGENCY ...	✓							
ROTARY TRANSFORMER	✓							

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATED WITH.	HOW PROTECTED.
		No. in Parallel Per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.			
MAIN GENERATOR ... ..		ONE	12/0.064	45	83	30	RUBBER	SWA. ARMoured
" " EQUALISER ... ..	✓	ONE	12/0.064	45 ✓	83	40	Do.	Do. Do.
AUX. GEN. ....	✓							
EMERGENCY GENERATOR ... ..	✓							
ROTARY TRANSFORMER: MOTOR ... ..	✓							
" " GENERATOR ... ..	✓							

[illegible][illegible][illegible]



The Electrical Equipment is installed in accordance with the approved plans and the requirements of the Rules.  
All Insulated Conductors are guaranteed to have been tested at the maker's works as specified in the Rules.  
The foregoing is a correct description.

*Clifton* Manager.

Electrical Department.  
MANN EGERTON & CO. LTD.

Electrical Engineers.

Date 17th Oct. 49.

#### COMPASSES.

Minimum distance between electric generators or motors and standard compass.

Minimum 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 2 Ampères feet from standard compass 20 FEET 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 ALL course in the case of the standard compass, and degrees on course in the case of the steering compass.

FOR RICHARDS IRONWORKS LIMITED.

Builder's Signature.

Date Oct 22/49.

Is this installation a duplicate of a previous case No If so, state name of vessel.

Plans. Are approved plans forwarded herewith No If not, state date of approval 26-1-49.

Certificates. Are certificates of test for motors engaged on essential services and generators forwarded herewith ATTACHED MAN. RPT. 13839.

General Remarks (State quality of workmanship, whether insulation tests, etc., have been made, opinions as to class, etc.)

The electrical equipment has been constructed & installed on board this vessel in accordance with the approved plans, Rules requirements & Secretary's letter.  
The materials & workmanship are sound & of good description.  
The insulation resistance has been tested & found satisfactory.  
The equipment has been tested under full load conditions & found satisfactory.

Noted Ent 30/11/49

Total Capacity of Generators 25 Kilowatts.

The amount of Fee £ 12. 10. 0

When applied for,

26 Oct. 1949

Travelling Expenses (if any) £ :

When received.

19.

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 2 DEC 1949

Assigned

In unwill see J.E. Rpt.



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