

Rpt. 13

# REPORT ON ELECTRICAL EQUIPMENT

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

Date of writing Report 12.6.1963 When handed in at Local Office 2.7.1963 Port of GRIMSBYNo. in Survey held at GRIMSBY Date, First Survey 13th Aug. 1962 Last Survey 9th April 63  
Reg. Book 58285 (No. of Visits 10)on the "ATLANTIC DOLPHIN" Tons 349 Gross 124 NetBuilt at Grimsby By whom built J.S. Doig (Grimsby) Ltd. Yard No. 69 When built 1963Owners Stogram Trawlers Ltd. Port belonging to LondonInstallation fitted by Mann Egerton & Co. Ltd. When fitted 1963Is vessel equipped for carrying Petroleum in bulk No Is vessel equipped with D.F. - E.S.D. Yes Gy.C. Yes Sub.Sig. - Radar YesPlans, have they been submitted and approved Yes System of Distribution 2 wire insulated Voltage of Lighting 220Heating 220 Power 220 D.C. or A.C. Lighting DC Power DC If A.C. state frequency -Prime Movers, has the governing been found as per Rule when full load is thrown on and off Yes Are turbine emergency governors fittedwith a trip switch - Generators, are they compound wound Yes, and level compounded under working conditions YesAre the generators arranged to run in parallel No Is the compound winding connected to the negative or positive pole NegativeHave machines 100 kw. and over been inspected by the Surveyors during manufacture and testing - Have certificates of test for machinesunder 100 kw. been supplied and the results found as per Rule - Position of Generators Port, centre, stbd. saddlemounted, belt driven from propulsion generators. Auxiliary 15 Kw. set stbd. side forward.is the ventilation in way of generators satisfactory Yes are they clear of inflammable material and protected from mechanical injury anddamage from water, steam and oil Yes Switchboards, where are main switchboards placed Athwartships E.R. floorlevel forward.

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

steam and oil Yes, what insulation is used for the panels Steel cubicle construction, if of synthetic insulatingmaterial is it an Approved Type -, if of semi-insulating material (slate or marble) are all conducting parts insulated therefrom asper Rule - Is the construction as per Rule, including locking of screws and nuts Yes Description of Main Switchgearfor each generator and arrangement of equaliser switches Double pole selector switch for 15 Kw set or shoresupply.and the switch and fuse gear (or circuit breakers) for each outgoing circuit Double pole, double throw switches andfuses.Are compartments containing switchboards composed of fire-resisting material or lined as per Rule - Instruments on main switchboard 2ammeters 1 voltmeters - synchronising devices. For compound machines in parallel are the ammeters and reverse currentprotection devices connected on the pole opposite to the equaliser connection - Earth Testing, state means provided ELSswitches and fuses Preference Tripping, state if provided -, and tested -Switches, Circuit Breakers and Fuses, are they as per Rule Yes, are the fuses an Approved Type Yesmake of fuses Artic & Dennis, are all fuses labelled Yes If circuit breakers are provided for the generators, at whatoverload do they operate -, and at what current do the reverse current protectivedevices operate - Cables, are they insulated and protected as per Rule Yes,if otherwise than as per Rule are they of an Approved Type -, state maximum fall of pressure between bus bars and any pointunder maximum load within 6% volts. Are all paper insulated and varnished cambric insulated cables sealed at the ends -

Are all the cable runs in accessible positions not exposed to drip or accumulation of water or oil, high temperatures or risk of mechanical

damage Yes, are any cables laid under machines or floorplates Yes, if so, are they adequately protected Yes Statetype of cables (if in conduit this should also be stated) in machinery spaces Butyl/PCP, galleys Butyl/PCPand laundries - State how the cables are supported or protected E.R. cables clipped to steeltrayplate. Accommodation cables clipped to wooden grounds or bulkheads.Are all lead sheaths, armouring and conduits effectually bonded and earthed - Are all cables passing through decks and watertightbulkheads provided with deck tubes or watertight glands Yes, where unarmoured cables pass through beams, etc., are the holeseffectively bushed Yes Refrigerated chambers, are the cables and fittings as per Rule -Have refrigeration fan motors been constructed under survey - and test certificates supplied -Are the motors accessible for maintenance at all times -

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F.E. FROM ADMIN/F	27/8/63
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Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule - . Emergency Supply, state position

Navigation Lamps, are they separately wired. Yes controlled by separate double pole switches and fuses. Yes Are the switches and fuses in a position accessible only to the officers on watch. Yes, is an automatic indicator fitted. Yes Is an alternative supply provided. Yes

Secondary Batteries, are they constructed, fitted and adequately ventilated as per Rule - , state battery capacity in ampere hours. - Where required to do so does it comply with 1948 International Convention. -

Lighting, is fluorescent lighting fitted. No If so, state nominal lamp voltage. - and compartments where lamps are fitted. -

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, weatherproof. Yes

Searchlights, No. of - , whether fixed or portable. - , are they of the carbon arc or of the filament type. -

Heating and Cooking, is the general construction as per Rule. Yes , are the frames effectually earthed. Yes , 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 protected from damage from water, steam and oil. Yes

Are motors coupled to oil fuel transfer and pressure pumps capable of being stopped from a position accessible in the event of fire in the pump compartment. Yes 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 sea services been supplied and the results found as per Rule. -

Lightning Conductors, where required are they fitted as per Rule. Steel masts

Ships carrying Oil having a Flash Point of less than 150° F. Have all the special requirements of the Rules for such ships been complied with. - , are all fuses of an Approved Cartridge Type. - , make of fuse. - Are the fittings for pump

rooms, 'tween deck spaces, etc., in accordance with the special requirements for such ships. - Are all cables lead covered as per Rule. -

E.S.D., if fitted state maker. Marconi location of transmitter and receiver. Btm frames 36-37.

Spare Gear, if the vessel is for open sea service have spares been provided as per Rule and suitably stored in dry situations. -

Insulation Tests, has the insulation resistance of all circuits and apparatus been tested and found satisfactory. Yes

#### PARTICULARS OF GENERATING PLANT

DESCRIPTION OF GENERATOR	No. of	MAKER	RATED AT				PRIME MOVER	
			Kw. per Generator	Volts	Ampères	Revs. per Min.	TYPE	MAKER
MAIN ...	3	Storhaven Eng. Co. Ltd.	25	220	104	825	Diesel	Paxman Ricardo
	1	Storhaven Eng. Co. Ltd.	12	220	54	1100	Diesel	Lister 4 cyl. 4 SCOA.
EMERGENCY ...		No. 612/69.						
ROTARY TRANSFORMER								

Note:- Generating Plant believed ex Admiralty, reconditioned by Storhaven Eng. Co.

#### GENERATOR CABLES

DESCRIPTION	No. of	Kw.	CONDUCTORS		MAXIMUM CURRENT IN AMPERES		APPROX. LENGTH (lead plus return feet)	INSULATION	PROTECTIVE COVERING
			No. in Parallel per Pole	Sectional Area or No. and Dia. of Strands Sq. ins. or sq. mm.	In the Circuit	Rule			
MAIN GENERATOR ...	3	25	1	19/.083	104	195	124 max.	Butyl	PCP/Braid (1 core)
" " EQUALISER ...									
	1	12	1	19/.044	54	93	80	Butyl	PCP/Braid (1 core)
EMERGENCY GENERATOR ...									
ROTARY TRANSFORMER: MOTOR									
" " GENERATOR ..									

#### MAIN DISTRIBUTION CABLES (to Auxiliary Switchboards, etc.)

DESCRIPTION	No. of	Kw.	No. in Parallel per Pole	Sectional Area or No. and Dia. of Strands Sq. ins. or sq. mm.	In the Circuit	Rule	APPROX. LENGTH (lead plus return feet)	INSULATION	PROTECTIVE COVERING
Shore Supply	1	19/.044	30A	93	160	Butyl	PCP/Braid (1 core)		
Fuse Box 5 Wheelhouse.	1	7/.029	10	24	140	"	" " (2 core)		
Fuse Box 6 Eng/Rm.	1	7/.029	12	24	80	"	" " "		
Fuse Box 1 Wheelhouse.	1	3/.029	14.2	16	140	"	" " "		
Navigation Light Indicator	1	3/.029	1.2	16	140	"	" " "		
Fuse Box 2 Accom./Passage, port.	1	7/.044	14.0	40	90	"	" " "		
Fuse Box 3 Accom./Passage, stbd.	1	7/.036	14A	32	100	"	" " "		
Fuse Box 4 Eng/Rm.	1	7/.029	9A	24	80	"	" " "		
Fuse Box 7 Eng/Room.	1	3/.029	6A	16	80	"	" " "		
Fuse Box 8 Shelter Deck.	1	19/.064	97	120	140	"	" " "		

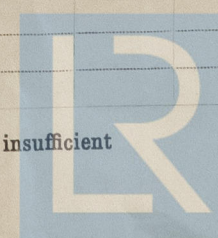
#### DISTRIBUTION CABLES (to Section-Boards and Distribution-Fuse-Boards, etc.)

DESCRIPTION	CONDUCTORS		MAXIMUM CURRENT IN AMPERES		APPROX. LENGTH (lead plus return feet)	INSULATION	PROTECTIVE COVERING
	No. in Parallel per Pole	Sectional Area or No. and Dia. of Strands Sq. ins. or sq. mm.	In the Circuit	Rule			
Main Switchboard to:-							
Galley Range	1	19/.044	80	93	150	Butyl	PCP/Braid (1 core)
Motor Heater	1	7/.029	8	29	240	"	" "
Radar	1	7/.029	12	29	140	"	" "
Propulsion Motor Fans (2)	2	7/.029	11	29	240	"	" "
Fuse Box 5 to:-							
Wireless	1	3/.029	1	16	60	Butyl	PCP/Braid (1 core)
E.S.D.	1	3/.029	5	16	60	"	" "
W.T. Battery Charging	1	7/.029	10	29	60	"	" "

#### MOTOR CABLES

ALL IMPORTANT MOTORS TO BE ENUMERATED	No.	B.H.P.	No.	B.H.P.	No.	B.H.P.	No.	B.H.P.	No.	B.H.P.
Main Board to:-										
Windlass	1	15	1	19/.044	58	93	100	Butyl	PCP/Board (1 core).	
G.S. Pump	1	14	1	19/.044	54	93	60	"	" "	
Steering Gear	1	5	1	7/.036	20	32	300	"	" (2 core).	
Compressor	1	6	1	7/.036	25	32	60	"	" "	
Refrigerator Motor	1	2	1	7/.029	9	32	140	"	" "	
Fresh Water Circ. Pump.	1	0.5	1	3/.029	3	16	70	"	" "	
Fuse Box 7 to:-										
Heat Transfer Circ. Pump.	1	0.5	1	7/.029	3	32	80	"	" "	
Pressure Tank Pump	1	0.5	1	3/.029	3	16	80	"	" "	
Heating System Circ. Pump.	1	0.5	1	3/.029	3	16	120	"	" "	
Pressure Tank Pump	1	0.5	1	3/.029	3	16	80	"	" "	
Fuse Box 6 to:-										
E.R. Fans	2		1	3/.029	9	16	80	"	" "	
Oil Fuel Transfer	1	1	1	3/.029	5	16	120	"	" "	
Trawl Winch	1	170	2	37/.103	630	660	140	Butyl	PCP/Braid (2 core).	

NOTE.—Use Rpt. 43 Continuation Sheet if the above space is insufficient



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*The foregoing is a correct description.*

NY, EGERTON & CO. LTD.  
MARINE ELECTRICAL  
DEPARTMENT  
NORWICH

*Electrical Contractors.*

Date 15th July 1963

## COMPASSES

Have the compasses been ~~adjusted~~ under working conditions.

...Builder's Signature.

Date.

Have the foregoing descriptions and schedules been verified and found correct..... 110

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

Plans. Are approved plans forwarded herewith.....Yes..... If not, state date of approval.....

Certificates. Are certificates of test for motors engaged on essential sea services and generators forwarded herewith..... Yes

General Remarks. (State quality of workmanship and materials, opinions as to class, etc.)..... The Electrical Equipment of this vessel has been installed under Special Survey and the arrangements are in accordance with or equivalent to those shown on the approved plans and the Rules for Electrical Equipment.

The materials used are of good quality and the workmanship is good.

On completion the equipment was seen operating under working conditions during which time various protective devices were adjusted and operated. The insulation resistance of all circuits was measured and found good.

The installation is in my opinion suitable for a vessel to be classed with this Society.

Total Capacity of Generators.....87.....Kilowatts.

The amount of Fee Gms. A/£ 51 : 15 : - When applied for,

Trawl Winch Equip- ment.	£5- 0- 0	19
		When received

Travelling Expenses (if any) £ 9 : 18 : 4d. 19

*Surveyor to Lloyd's Register of Shipping*

FRIDAY 30 AUG 1963

Committee's Minute.

*Assigned.*