

Rpt. 1

No. 23138

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

Date of writing Report 29: 5: 19 51 When handed in at Local Office 25: 6: 19 51 Port of Aberdeen.

No. in Survey held at Aberdeen. Date, First Survey 25: 1: 51 Last Survey 16: 6: 19 51 Reg. Book. (No. of Visits 7)

on the S. T. " JON BALDVINSSON" Tons { Gross 680.77 Net 230.22

Built at Aberdeen By whom built Messrs Hall Russell & Co Ltd. 826 When built 1951

Owners Icelandic Government Port belonging to Reykjavik.

Installation fitted by Messrs Hall Russell & Co Ltd. When fitted 1951

Is vessel equipped for carrying Petroleum in bulk. Is vessel equipped with D.F. E.S.D. Gy.C. Sub.Sig. Radar.

Plans, have they been submitted and approved. System of Distribution two wire Voltage of Lighting 220V

Heating 220V Power 220V D.C. or A.C., Lighting D C Power D C If A.C. state frequency

Prime Movers, has the governing been found as per Rule when full load is thrown on and off. Are turbine emergency governors fitted

with a trip switch. Generators, are they compound wound, and level compounded under working conditions.

if not compound wound state distance between generators. Are the generators arranged to run

in parallel. are shunt field regulators provided. 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. and the results found as per Rule.

Position of Generators Engine room Starboard side Fore & Aft (Main), Port side fwd. (Aux.)

is the ventilation in way of generators satisfactory. are they clear of inflammable material and protected from mechanical injury and

damage from water, steam and oil. Switchboards, where are main switchboards placed. Engine room, starboard

side

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

steam and oil. what insulation is used for the panels. if of synthetic insulating

material is it an Approved Type. if of semi-insulating material (slate or marble) are all conducting parts insulated therefrom as

per Rule. Is the construction as per Rule, including locking of screws and nuts. Description of Main Switchgear

for each generator and arrangement of equaliser switches. One double pole circuit breaker with overload

trips and no volt release coils to each generator

and the switch and fuse gear (or circuit breakers) for each outgoing circuit. D.P. Change-over Knife Switches with

fuse on each pole

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule. Instruments on main switchboard 3

ammeters. 3 voltmeters. synchronising devices. For compound machines in parallel are the ammeters and reversed current

protection devices connected on the pole opposite to the equaliser connection. Earth Testing, state means provided.

Lamp with switch and fuse on each pole.

Switches, Circuit Breakers and Fuses, are they as per Rule. are the fuses an Approved Type.

make of fuses. Sanders & Co. Ltd. are all fuses labelled. If circuit breakers are provided for the generators, at what

overload do they operate. 150% full load, and at what current do the reversed current protective devices operate.

Joint Boxes, Section Boards and Distribution Boards, is the construction as per Rule.

Cables, are they insulated and protected as per Rule. 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. 6 volts, are the ends of all cables having a sectional

area of 0.01 square inch and above provided with soldering sockets. 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. are any cables laid under machines or floorplates. if so, are they

adequately protected. Are cables in machinery spaces, galleys, lavatories, etc., lead covered. or run in conduit.

or of the "HR" type. State how the cables are supported or protected.

clips & perforated trays & pipes & steel plates where necessary

Are all lead sheaths, armouring and conduits effectually bonded and earthed. Are all cables passing through decks and watertight

bulkheads provided with deck tubes or watertight glands. where unarmoured cables pass through beams, etc., are the holes

effectively bushed. Refrigerated chambers, are the cables and fittings as per Rule.



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Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule... **yes** ... Emergency Supply, state position **None**

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... **no** ... Is an alternative supply provided... **yes**

Secondary Batteries, are they constructed and fitted as per Rule... **None** ... are they adequately ventilated... **--** ... state battery capacity in ampere hours... **--**

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, weatherproof... **yes** ... Are any 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... **--**

Searchlight Lamps, No. of... **1** ... whether fixed or portable... **fixed** ... are they of the carbon arc or of the filament type... **filament**

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... **None** ... 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... **yes**

Control Gear and Resistances, are they constructed and fitted as per Rule... **yes** ... Lightning Conductors, where required are they fitted as per Rule... **None** ... 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 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 the cables lead covered as per Rule... **--**

E.S.D., if fitted state maker... **Hughes** ... location of transmitter... **Stokehold** ... and receiver... **Stokehold**

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

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.	
			Kilowatts per Generator.	Volts.	Ampères.	Revs. per Min.	TYPE.	MAKER.
MAIN ...	2	Clarke-Chapman	80	220	365	1000	H.O. Eng.	Ruston & Hornsby
	1	- do -	15	"	68	"	"	"
EMERGENCY ... ROTARY TRANSFORMER								

GENERATOR CABLES.

DESCRIPTION.	KILOWATTS.	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	80	2	19/083	365	404	48	V C	L.C.A. & B.
" " BEWALISHER	"	2	"	"	"	56	V C	"
" " "	15	1	19/064	68	83	180	VIR	"
EMERGENCY GENERATOR								
ROTARY TRANSFORMER: MOTOR								
" " GENERATOR								

MAIN DISTRIBUTION CABLES (to Section Boards, Distribution Fuse Boards, etc.).

DESCRIPTION.	No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	MAXIMUM CURRENT IN AMPERES.	APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
Fishmeal Plant Section Board	1	19/064	120	143	150	V C Lead Sheathed Wire Armd.

LIGHTING, HEATING, WIRELESS, NAVIGATION LIGHTS, ETC., CABLES.

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.			
Forward Accom. Lighting	1	7/036	7	24	300	V.I.R.	Lead Sheathed Wire Armd.
Upper Bridge & Wheelhouse	1	7/044	8	31	180	"	"
Navigation	1	7/036	2	24	180	"	"
Aft. Accom. Lighting	1	7/036	13	24	150	"	"
Eng. & Boiler Room Lighting	1	-	8.5	-	-	-	On main switchboard
Fishroom lighting	1	7/029	4	15	300	"	Lead Sheathed Wire Armd.
Wireless	1	7/044	10	31	160	"	"
Echo Sounding Direction Finder	1	7/044	13	31	180	"	"
Radar	1	7/044	10	31	26	"	"
Mechanical Ventilation	1	7/036	11	24	52	"	"
Fresh Water Pumps	1	7/044	30	31	100	"	"
Forward Immersion Heaters	1	19/064	68	84	320	"	"
Galley " "	1	7/036	13.6	24	150	"	"
Galley Small Power Units	1	7/029	4.5	15	110	"	"

MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.	CONDUCTORS.	MAXIMUM CURRENT IN AMPERES.	APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
Windlass	1	23	1 19/064	86	92	340	V.I.R. Lead Sheathed Wire Armd.
Steering Gear	1	8	1 7/064	33	46	250	" " "
No. 1 General Service Pump	1	8/14	1 19/064	53	83	180	" " "
No. 2 " "	1	8/14	1 19/064	53	83	180	" " "
Air Pump	1	15	1 19/052	59	64	180	" " "
Refrig. Plant	1	1	1 7/029	5	15	200	" " "
Air Compressor	1	4.75	1 7/036	20	24	200	" " "
Aux. Boiler Feed Pump	1	24	1 19/083	90	118	200	" " "
Forced Draught Fan	1	6	1 7/044	26	31	150	" " "
Oil Fuel Transfer Pump	1	5/6 1/2	1 7/044	29	31	100	" " "
No. 1 Oil Fuel Pump	1	1 1/2	1 3/036	7.5	10	120	" " "
No. 2 " " "	1	1 1/2	1 3/036	7.5	10	120	" " "
Cod Liver Pump	1	4	1 7/036	17	24	150	" " "
Cod Liver Oil Pump	1	3	1 7/036	13	24	120	" " "
Fish Room Cooling Pump	1	5	1 7/044	21	31	140	" " "
Hacking Machine	1	8	1 7/064	33	46	80	V.I.R. Lead Sheathed Wire Armd.
Drier	1	10	1 7/064	40	46	42	" " "
Fish Press	1	5	1 7/036	21	24	68	" " "
Grinding Mill	1	12 1/2	1 19/044	50	53	70	" " "
Exhaust Fan	1	3	1 7/029	13	15	38	" " "
Strainer	1	1/2	1 3/036	3	10	52	" " "
Separator	1	1 1/2	1 3/036	8	10	50	" " "
No. 1 Liqueur Pump	1	1/2	1 3/029	1.5	5	56	" " "
No. 2 " " "	1	1/2	1 3/029	1.5	5	56	" " "

