

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 &amp; Co Ltd. 826 When built 1951

Owners Icelandic Government Port belonging to Reykjavik.

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

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

Plans, have they been submitted and approved. yes 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. yes Are turbine emergency governors fitted

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

if not compound wound state distance between generators. -- and from switchboard. -- Are the generators arranged to run

in parallel. no, 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

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

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

damage from water, steam and oil. yes 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. yes, what insulation is used for the panels. sindanyo, 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 construction as per Rule, including locking of screws and nuts. yes 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. yes, are the fuses an Approved Type. yes

make of fuses. Sanders &amp; Co. Ltd. are all fuses labelled. yes 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. yes

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 point under maximum load. 5 volts, are the ends of all cables having a sectional

area of 0.01 square inch and above provided with soldering sockets. yes Are all paper insulated and varnished cambric insulated

cables sealed at the ends. yes 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 Are cables in machinery spaces, galleys, lavatories, etc., lead covered. yes or run in conduit. --

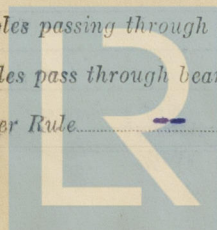
or of the "HR" type. -- State how the cables are supported or protected.

clips &amp; perforated trays &amp; pipes &amp; steel plates where necessary

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



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

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								

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 Sq. ins. or sq. mm.	In the Circuit.	Rule.			
MAIN GENERATOR ... ..	80	2	19/083	365	404	48	V C	L.C.A. & B.
" " EQUALIZER ... ..	"	2	"	"	"	56	V C	"
" " ... ..	15	1	19/064	68	83	180	VIR	"
EMERGENCY GENERATOR ... ..								
ROTARY TRANSFORMER : MOTOR ... ..								
" " GENERATOR... ..								

[illegible][illegible]

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.							
Windlass	1	23	1	19/064	86✓	92	340	V.I.R.	Lead Sheathed Wire Arm'd.
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 $\frac{1}{2}$	1	7/044	29✓	31	100	"	" "
No. 1 Oil Fuel Pump	1	1 $\frac{1}{2}$	1	3/036	7.5✓	10	120	"	" "
No. 2 " " "	1	1 $\frac{1}{2}$	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 Arm'd.
Drier	1	10	1	7/064	40✓	46	42	"	" "
Fish Press	1	5	1	7/036	21✓	24	68	"	" "
Grinding Mill	1	12 $\frac{1}{2}$	1	19/044	50✓	53	70	"	" "
Exhaust Fan	1	3	1	7/029	13✓	15	38	"	" "
Strainer	1	$\frac{1}{2}$	1	3/036	3✓	10	52	"	" "
Separator	1	1 $\frac{1}{2}$	1	3/036	8✓	10	50	"	" "
No. 1 Liqueur Pump	1	$\frac{1}{2}$	1	3/029	1.5✓	5	56	"	" "
No. 2 " "	1	$\frac{1}{2}$	1	3/029	1.5✓	5	56	"	" "



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.

For HALL RUSSELL & Co., Ltd.

Electrical Contractors.

Date

29/5/51

#### COMPASSES.

Have the compasses been adjusted under working conditions.

Yes

Builder's Signature.

Date

29/5/51.

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

Yes

Is this installation a duplicate of a previous case.

yes

If so, state name of vessel.

Hall Russell's 825.

Plans. Are approved plans forwarded herewith.

Yes

If not, state date of approval.

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

Yes

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

The electrical installation of this vessel has been fitted on board under special survey in accordance with the Rules and approved Plans, seen under working conditions and found satisfactory. The materials and workmanship are good.

Total Capacity of Generators

175

Kilowatts.

The amount of Fee

£ 68

5

When applied for,

25:6:19 51

When received,

19

Travelling Expenses (if any) £

p. S.C. Johnson & Self.

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

GLASGOW 27 JUN 1951

SEE ACCOMPANYING MACHINERY REPORT



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