

# REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

17 APR 1950

Date of writing Report... 29/3... 1950. When handed in at Local Office... 1/4... 1950. Port of... Groningen

No. in Survey held at... Martenshoek... Date, First Survey... 13.1.50... Last Survey... 2.3.1950  
Reg. Book. (Number of Vicks...)

on the M.V. "Bergo" Tons (Gross... 599.48  
Net... 369.31

Built at... Martenshoek... By whom built... Bodewes Scheepswerf... Yard No. 277... When built... 3/50

Owners... Edgar Erikson... Port belonging to... Marihamn

Electrical Installation fitted by... Jan Bodewes at Hoogerland... Contract No. ... When fitted... 1/50

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

Have plans been submitted and approved... yes... System of Distribution... two wire insulated... Voltage of supply for Lighting... no

Heating... no... Power... no... Direct or Alternating Current, Lighting... direct... Power... direct... 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... no... are they level compounded under working conditions... —

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... no... are shunt field regulators provided... yes... Is the compound winding connected to the negative or positive pole

... —... 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... E.P. floor level 11' 6" 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... no V. belt connections... Switchboards, where are main switchboards placed... E.P. Port side 1' platform above deep water

line

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... dead front type switchboard... 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 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... —... Description of Main Switchgear for each generator and arrangement of equaliser switches... Three pole D.T.

match & D.P. fuses

and for each outgoing circuit... D.P. match & D.P. fuses

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule... yes... Instruments on main switchboard... 2

ammeters... 1... 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 indicating lamp connected to E through D.P. fuses

Switches, Circuit Breakers and Fuses, are they as per Rule... yes... 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... 46%... are the ends of all cables having a sectional area of 0.01

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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PARTICULARS OF GENERATING PLANT.								
DESCRIPTION OF GENERATOR.	<i>Serial.</i>  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 I.. ... II .....	476731	5	110	45.5	800/1650	Magn	Diesel engine	
	476732	5	110	45.5	800/1650	Magn	Main shaft	Diesel Oil above 150°F
EMERGENCY ...								
ROTARY TRANSFORMER								

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return).	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 <b>I</b> ... ..	5	1	25	46.5	63	28	1.4.9	L. L. 2 1/2 W. P.
" " EQUALISER <b>II</b> ... ..	5	1	25	46.5	63	20		
EMERGENCY GENERATOR ... ..								
ROTARY TRANSFORMER: MOTOR								
" " GENERATOR ... ..								

[illegible]

<u>Supplied from main switchboard</u>		LIGHTING AND HEATING, ETC., CABLES.						
WIRELESS	1	4.	10.	✓	22.5	14.	} N.Y.R.	h.c. & h.w.B
NAVIGATION LIGHTS								
LIGHTING AND HEATING								
lighting wheelhouse & alt supply main.	1	2.5	3	✓	15.5	20		
lighting L.R.	1	2.5	2.5	✓	15.5	20.	}	
lighting fore castle	1	2.5	1	✓	15.5	112		
lighting L.R.	1	2.5	3	✓	15.5	34		
<u>Supplied from L.F.B. Navigation lighting</u>							} N.Y.R.	H.R. type
hull light	1	1.5	0.5	✓	9.5	12		
head light fore	1	1	0.5	✓	6.5	110		
head light aft	1	1	0.5	✓	6.5	38		
port side light	1	1	0.5	✓	6.5	24		
starboard side light	1	1	0.5	✓	6.5	14		
horn light	1	1	0.5	✓	6.5	34		

ALL <del>IMPORTANT</del> MOTORS TO BE ENUMERATED.	No.	B.H.P.								
Domestic refrigerator	1	0.3	1	15	3	✓	9.5	24.	NBR	HP R. type
Hydrophor pump fresh water	1	0.15	1	2.5	7.2	✓	15.5	24	} NBR	L. C. & M. W. B.
Hydrophor pump sea water	1	0.15	1	2.5	7.2	✓	15.5	15		



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.

*Mens Jan Bodewes Hovgerand*

Electrical Engineers.

Date *29/III/50*

#### 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 ..... Ampères ..... 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 .....

Has the effect of switching on and off circuits, motors and other electro-magnetic apparatus within the vicinity of the compasses been noted .....

The maximum deviation due to electric currents was found to be ..... degrees on ..... course in the case of the standard compass, and ..... degrees on ..... course in the case of the steering compass.

Builder's Signature.

Date.....

Is this installation a duplicate of a previous case..... *yes*

If so, state name of vessel

*Bodewes Hovgerand No 276*

Plans. Are approved plans forwarded herewith..... *yes*

If not, state date of approval

*Revised plan submitted 3.4.50*

Certificates. Are certificates of test for motors engaged on essential 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 equipment of this vessel has been installed under special survey in accordance with the Rules and the approved plans. The materials used are of good quality and design and the workmanship are good.*

*On completion the equipment have been tried out under full working conditions and found satisfactory.*

*This equipment is in my opinion suitable for a classed vessel.*

*Noted Sub 3/5/50.*

Total Capacity of Generators..... *10.* Kilowatts.

The amount of Fee ...

*£ 175 -*

When applied for,

..... *5.4.1950* .....

Travelling Expenses (if any)

*£ 48 -*

When received.

..... *19.50* .....

*Shall* (H.K.D. SLUIS)  
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

*FRI. 5 MAY 1950*

Assigned

*See F.E. mclay rpt.*



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