

Rpt. 13.

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

No. 1025 d

Date of writing Report 6-9-1954 When handed in at Local Office ✓ 19 54 Received at London Office 4-NOV 1954

No. in Survey held at Waterhuizen Date, First Survey 3-6-1954 Last Survey 3-9-1954

Reg. Book. ✓ (No. of Visits 16)

on the ms. "ORANJEPOLDER" Tons { Gross 499.75
Net 230.33

Built at Waterhuizen By whom built Schm. Waterhuizen Yard No. 219 When built 1954

Owners Stoomvaart Mij. "Westpoolen" N.V. Port belonging to Rotterdam

Installation fitted by Mees. Pelsch - Hoogerland When fitted 1954

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

Plans, have they been submitted and approved yes System of Distribution 2-wire insulated Voltage of Lighting 110

Heating 110 Power 110 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 fitted with a trip switch ✓ Generators, are they compound wound yes, and level compounded under working conditions yes

Are the generators arranged to run in parallel 2 off 40 kw Is the compound winding connected to the negative or positive pole negative

Have machines 100 kw. and over 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 yes Position of Generators 2 P. floor bulk

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 2 P. floor bulk
against forward bulkhead.

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 dead front type no board, 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 yes Description of Main Switchgear for each generator and arrangement of equaliser switches Triple pole C.B. with three pole equaliser switch, fitted with C.L. & worn brass stream

Harbour generator: 2 P. DT switch & 2 P. fuses

and the switch and fuse gear (or circuit breakers) for each outgoing circuit 2 P. switches and fuses

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule yes Instruments on main switchboard 4 ammeters 3 voltmeters - synchronising devices - For compound machines in parallel are the ammeters and reverse current protection devices connected on the pole opposite to the equaliser connection yes Earth Testing, state means provided Earth indicating lamps Preference Tripping, state if provided no, and tested ✓

Switches, Circuit Breakers and Fuses, are they as per Rule yes, are the fuses an Approved Type yes make of fuses Nike & Bunniger, are all fuses labelled yes If circuit breakers are provided for the generators, at what overload do they operate 50%, and at what current do the reverse current protective devices operate 10-15% F.L. 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 < 6% volts. 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 no, if so, are they adequately protected ✓ State type of cables (if in conduit this should also be stated) in machinery spaces HR type, galleys HR type and laundries ✓ State how the cables are supported or protected Most spaces: Clipped to steel trays or in pipe - Accom. spaces: Clipped to wood grates

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 yes Have refrigeration fan motors been constructed under survey yes and test certificates supplied yes Are the motors accessible for maintenance at all times yes

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Battery placed above deep water line.

Are the indicator lamps or they separately wired yes connected by separate wiring 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 49, state battery capacity in ampere hours 190. 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. ✓

[illegible]

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

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

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

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

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

PARTICULARS OF GENERATING PLANT.

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DESCRIPTION OF GENERATOR.	No. of	MAKER.	RATED AT				PRIME MOVER.	
			Kw. per Generator.	Volts.	Ampères.	Revs. per Min.	TYPE.	MAKER.
MAIN ...	2	Hamam	40	110	347	1000	Direct	Worm Gear
	1	Hamam	20	110	182	1000	"	"
EMERGENCY ...								
ROTARY								
TRANSFORMER								

GENERATOR CABLES.

[illegible]

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

[illegible]

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

DESCRIPTION.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (load 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.			
Supplied from main switchboard S.							
SB Winches 1 & 2	1	150	307 ✓	346	4	VC	1C & MNB
SB Eng. Room E.	1	50	80 ✓	99	22	VIR	HA type
" " " 2	1	16	40 ✓	49	6	"	"
DEB. Refrig. installation F.	1	50	100 ✓	169	120	VC	1C & MNB
DEB. Wireless Equipment T	1	4	12 ✓	22.5	84	VIR	HA type
Lighting BR	1	1.5	3.5 ✓	9.5	4	"	"
DEB. Navigation Lighting P	1	1.5	2.5 ✓	9.5	84	"	"
Lighting BR	1	1.5	4 ✓	9.5	8	"	"
DEB. Lower BR. G	1	2.5	17 ✓	15.5	16	"	"
" " " H	1	2.5	11.5 ✓	15.5	38	"	"
" Ventilators C	1	6	8.5 ✓	29	14	"	"
Supplied from switchboard Z.							
BR Lighting	1	1.5	3.5 ✓	9.5	4	VIR	HA type
DEB. Warehouse Lighting R	1	1.5	10.5 ✓	9.5	84	"	"
" Accum. Lighting K+N	1	6	29.5 ✓	29	22	"	"
" " " L+M	1	6	22 ✓	29	88	"	"

MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED.				No.	B.H.P.						
Supplied from main switchboard:											
Mining gear		4	1	16	32V	49	42	VIR	HR type		
Capstan		9	1	35	68V	78	46	"	"		
Ballast pump		12	1	50	94.5V	99	18	"	"		
Supplied from HB's winches B & A.											
Winch post each	2	25	1	50	192V	169 ²⁵⁰	12	VC	} LC & MMB.		
" " "	2	25	1	50	192V	169 ²⁵⁰	12	"			
Winchless		24	1	70	185V	212	34	"			
Supplied from DFB Ventilators C.											
Two Central Ventilators	2	134W	1	1.5	144V	9.5	10/9	VIR	HR type		
Hold ventilators	4	154W	1	6.5	144V	9.5	7.8	"	"		
Supplied from DFB 2H power D.											
Oil filter		3 KW	1	6	25V	29	12	"	"		
Atomizer cooling pump		0.5	1	1.5	4.9V	9.5	2.2	"	"		
DFB transfer pump		1.5	1	2.5	13.2V	15.5	2.4	"	"		
Supplied from DFB 2H power E.											
Streamline filter		4.8 KW	1	16	44V	49	12	"	"		
Space lub. oil pump		6	1	16	47V	49	14	"	"		
Supplied from DFB Refrig installation F.											
Compressor		6.5	1	2.5	80V	63	12	"	"		
Ventilators	2	1/3	1	1.5	2.3V	9.5	16	"	"		
Cool. water pump		1	1	2.5	8.6V	15.5	8	"	"		
Supplied from DFB Power 2H - G											
F.W. Hydrophor pump		1	1	1.5	8.8V	9.5	8	"	"		
SW "		1	1	1.5	8.8V	9.5	6	"	"		
Two Central Heating		30 W	1	1.5	2.85V	9.5	14	"	"		
Pump "		1/3	1	1.5	3.7V	9.5	10	"	"		

NOTE.—Use Rpt. 13 Continuation Sheet if the above space is insufficient.

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.

HERMAN G. EKKELS N.V.

Electrical Contractors.

Date

COMPASSES.

Have the compasses been adjusted under working conditions.

DEEPOWERS
RHUIZEN
PATTIE

Builder's Signature.

Date

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

Is this installation a duplicate of a previous case.

If so, state name of vessel.

Plans. Are approved plans forwarded herewith.

If not, state date of approval.

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

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 in accordance with the Society's Rules, Secretary's letters and approved plans or equivalent thereto. — The material used are of a good quality and the design and workmanship are good. — On completion the equipment has been tried out under full working conditions and found satisfactory. —
This equipment is in our opinion suitable for a classed vessel.

Total Capacity of Generators. 100 Kilowatts.

The amount of Fee ...

fl. 627.-

When applied for,

10-9-1954

Travelling Expenses (if any)

fl. 110.-

When received,

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Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRIDAY 3 DEC 1954

Assigned



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