

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

28 AUG 1953

Date of writing Report 21-8-1953 When handed in at Local Office ✓ 19 53 Port of GRONINGENNo. in Survey held at WESTERBROEK Date, First Survey 20.5.53 Last Survey 20.8.19.53
Reg. Book. (No. of Visits 10)on the "PERMATA" Tons { Gross 664.89
Net 439.36Built at WESTERBROEK By whom built N.V. E. J. SMIT & ZN'S SCHIN Yard No. 727 When built 1953Owners REPUBLIC INDONESIA Port belonging to DIJAKARTAInstallation fitted by MESSRS HERMAN G. ECKELS N.V. When fitted 19.5.53Is vessel equipped for carrying Petroleum in bulk NO Is vessel equipped with D.F. NO E.S.D. YES Gy.C. NO Sub.Sig. NO Radar NOPlans, have they been submitted and approved YES System of Distribution 2 WIRE INSULATED Voltage of Lighting 110Heating 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,if not compound wound state distance between generators ✓ and from switchboard ✓ Are the generators arranged to runin parallel NO, are shunt field regulators provided YES Is the compound winding connected to the negative or positive poleNEGATIVE Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing ✓ Have certificates oftest for machines under 100 kw. been supplied YES and the results found as per Rule YESPosition of Generators ER FLOOR LEVEL, 1 EMERGENCY DYNAMO ON BORT DECKis 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 ER FLOOR LEVELare 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 SW. BOARD, if of synthetic insulatingmaterial 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 Switchgearfor each generator and arrangement of equaliser switches D.D. SWITCH & D.D. FUSESand the switch and fuse gear (or circuit breakers) for each outgoing circuit D.D.T. SWITCHES & D.D. FUSESAre compartments containing switchboards composed of fire-resisting material or lined as per Rule YES Instruments on main switchboard 3ammeters 2 voltmeters ✓ synchronising devices. For compound machines in parallel are the ammeters and reversed currentprotection devices connected on the pole opposite to the equaliser connection ✓ Earth Testing, state means provided EARTHINDICATING LAMPS FOR EACH BUSBAR SYSTEMSwitches, Circuit Breakers and Fuses, are they as per Rule YES, are the fuses an Approved Type YES (KEMA APPRO.),make of fuses WEBER & HAZEMEYER, are all fuses labelled YES If circuit breakers are provided for the generators, at whatoverload do they operate ✓, and at what current do the reversed current protective devices operate ✓Joint Boxes, Section Boards and Distribution Boards, is the construction as per Rule YESCables, 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 < 1%, are the ends of all cables having a sectionalarea of 0.01 square inch and above provided with soldering sockets YES Are all paper insulated and varnished cambric insulatedcables 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 theyadequately protected ✓ Are cables in machinery spaces, galleys, laundries, etc., lead covered NO or run in conduit NOor of the "HR" type YES State how the cables are supported or protected MACH SPACES: HR TYPE CABLE CLIPPED TOPERFORATED PLATING - ACCOM SPACES: HR TYPE CABLE CLIPPED TO WOOD GROUNDING OR SURFACE -CARGO HOLES: HR TYPE CABLE CLIPPED TO SHEET IRON PLATE AND PROTECTED BY SHEET IRON COVERS.Are all lead sheaths, armouring and conduits effectually bonded and earthed YES 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 YES

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

PARTICULARS OF GENERATING PLANT.							PRIME MOVER.	
DESCRIPTION OF GENERATOR.	No. of	MAKER.	RATED AT			Revs. per Min.	TYPE.	MAKER.
			Kilowatts per Generator.	Volts.	Ampères.			
MAIN	1	SMIT N ^o 40224	25	110	227	1000	DIESEL	KROMHOUT
	1	" " 40217	25	110	227	1000	"	"
	1	" " 40225	12	110	109	1000	"	SANOZA
EMERGENCY ...								
ROTARY								
TRANSFORMER								

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet)	INSULA- TION.	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	25	2	180	227 ✓	254	14	VIR	H.R. TYPE
" " EQUALISER	25	2	180	227 ✓	254	22	"	"
" " "	12	1	120	149 ✓	127	2.5	"	"
EMERGENCY GENERATOR								
ROTARY TRANSFORMER : MOTOR								
" " GENERATOR...								

[illegible][illegible]

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.							
<u>SUPPLIED FROM MAIN SWITCHBOARD:</u>									
STEERING GEAR	2.5	1	10	22 ✓	28	60	11R	HR. TYPE	
CORSTAN	9	1	35	70 ✓	79	60	"	"	
WINDLASS	17	1	70	133 ✓	130	118	"	"	
SPARE COOL WATER PUMP	4	1	16	33.6 ✓	34	8	"	"	
LUB OIL PUMP	2	1	6	17.6 ✓	21	8	"	"	
CI TRANSFER PUMP	1	1	2.5	9.2 ✓	9	10	"	"	
BOAT WINCH	8	1	35	62.5 ✓	85	60	"	"	
<u>SUPPLIED FROM EMERGENCY SWITCHBOARD:</u>									
<u>EITHER FROM MAIN GENERATORS OR FROM EMERGENCY GENERATOR:</u>									
EMERGENCY BILGE PUMP	7.5	1	35	58 ✓	55	50	"	"	
<u>SUPPLIED FROM SECTION BOARD POWER ER (B1)</u>									
SW HYDROTOR PUMP	2	1	4	15 ✓	14.6	8	"	"	
2 FN. " " EACH	1	1	2.5	8 ✓	9	6	"	"	
<u>SUPPLIED FROM SECTION BOARD VENT. FANS RET. (B2)</u>									
CENTR. VENT	1.6 KW	1	4	15 ✓	17.6	36	"	"	
COOLER & GALLEY FAN	0.6 KW	1	1.5	8.5 ✓	5	24	"	"	
GALLEY VENTILATION	10.5 KW	1	1.5	15 ✓	5	18	"	"	
VENT. FAN CARGO HOLD	16.5 KW	1	1.5	15 ✓	5	30	"	"	
E.R. VENT.	15.4 KW	1	1.5	14.3 ✓	5	26	"	"	
VENT. FAN CARGO HOLD	10.5 KW	1	1.5	15 ✓	5	30	"	"	
COOLER & RICE BOILER	6.2 KW	1	1.5	9.6 ✓	5	20	"	"	
E.R. VENT.	15.4 KW	1	1.5	14.3 ✓	5	26	"	"	
<u>SUPPLIED FROM SECTION BOARD VENT. FANS MIDSHIPS (B3)</u>									
VENT. FANS ACCOM.	3	1	6	24 ✓	21	20	"	"	
" " PASSENGER HOLD	16.5 KW	1	2.5	15 ✓	9	36	"	"	
" " CARGO HOLD	16.5 KW	1	2.5	15 ✓	9	40	"	"	
<u>SUPPLIED FROM RETRIG. EQUIPMENT (B4)</u>									
COOLING PUMP COMPRESSOR	1/2	1	2.5	4 ✓	9	10	"	"	
COMPRESSOR	2.7	1	6	23 ✓	21	12	"	"	

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. EEKELS N.V.

P. PROO

Electrical Contractors.

Date 24.8.53

COMPASSES.

Have the compasses been adjusted under working conditions.

N.V. E. J. SMIT & ZOON

OPPENSWERVEN

WESTERBOEK

Builder's Signature.

Date 24.8.53

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. BARLIAN, BIDURI

Plans. Are approved plans forwarded herewith. NO If not, state date of approval. 30/6/53

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 equipment of this vessel has been installed under special survey in conformity with the Society's Rules and Regulations and the approved plans or equivalent details. - The materials 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 my opinion suitable for a pleasure vessel.

Noted and 18/9/53

Total Capacity of Generators 62 Kilowatts.

The amount of Fee ...

fl. 534.-

When applied for,

258- 19.53.

When received,

19.-

Travelling Expenses (if any) fl. 91.-

TUESDAY 22 SEP 1953

Committee's Minute

Assigned

See Rpt 46

Surveyor to Lloyd's Register of Shipping.