

Rpt. 13.

No. 872<sup>e</sup>

# REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

Date of writing Report 5-10-1953 When handed in at Local Office ✓ 19 53 Port of GRONINGEN  
 No. in Survey held at MARTENSHOEK Date, First Survey 0-7-53 Last Survey 22-9-1953  
 Reg. Book. (No. of Visits 9)  
 on the M.V. "BARAU" Tons { Gross 105.25  
 Net 74.1  
 Built at Martenshoek By whom built Badewes Senw. Yard No. 401 When built 1953  
 Owners REPUBLIC INDONESIA Port belonging to DKARTTA  
 Installation fitted by JAN Badewes, Hoogezand When fitted 1953  
 Is vessel equipped for carrying Petroleum in bulk no Is vessel equipped with D.F. no E.S.D. no Gy.C. no Sub.Sig. no Radar no

Plans, have they been submitted and approved yes System of Distribution two wire insulated Voltage of Lighting 110  
 Heating ✓ 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  
yes (except shaft driven generator) with a trip switch ✓ Generators, are they compound wound ✓, and level compounded under working conditions yes  
 Are the generators arranged to run in parallel no Is the compound winding connected to the negative or positive pole negative pole  
 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 ER floor level Stbd side

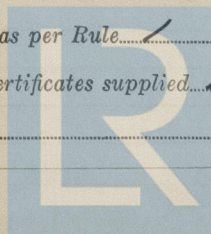
is the ventilation in way of generators satisfactory yes are they clear of inflammable material and protected from mechanical injury and  
 damage from water, steam and oil yes Switchboards, where are main switchboards placed ER floor level Port side

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 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 construction as per Rule, including locking of screws and nuts yes Description of Main Switchgear  
 for each generator and arrangement of equaliser switches DP switch & DP fuses

and the switch and fuse gear (or circuit breakers) for each outgoing circuit DPDT switch & DP fuses

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule yes Instruments on main switchboard 2  
 ammeters 2 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 ✓ Earth Testing, state means provided earth ind.  
Lamps for each busbar system Preference Tripping, state if provided ✓, and tested ✓  
 Switches, Circuit Breakers and Fuses, are they as per Rule yes, are the fuses an Approved Type yes (KEMA approved)  
 make of fuses Weber & EMP (Eng.), are all fuses labelled yes If circuit breakers are provided for the generators, at what  
 overload do they operate ✓, and at what current do the reverse current protective  
 devices operate ✓ 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 < 4% volts. 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 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 MICC and LC & MWB, galleys MICC  
 and laundries ✓ State how the cables are supported or protected Machinery spaces: CC or LC & MWB  
cable clipped to perforated plating

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



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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.	
			Kw. per Generator.	Volts.	Amperes.	Revs. per Min.	TYPE.	MAKER.
MAIN ...	1	Smit Slikkerveer	15	115	130	1000	Diesel shaft driven	Kromhout Werkspoor
	1	Smit Slikkerveer	10	115	87	900/1000		
EMERGENCY ...								
ROTARY								
TRANSFORMER								

[illegible][illegible]

DESCRIPTION.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet). ft.	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.			
<u>SUPPLIED FROM MAINSWITCHBOARD</u>							
From diesel driven or shaft driven generator altern.							
DFB LIGHTING BRIDGE & FORESHIP + NAV. "B+A"	1	5	33	48 ✓	46	MI	CC
DFB LIGHTING AFTERSHIP FORESHIP & ER "C"	1	3	11	30 ✓	24	MI	CC
DFB LIGHTING AFTERSHIP & ER "D"	1	3	10	30 ✓	12	MI	CC
DFB NAVIGATION "A"	1	3	7	30 ✓	42	MI	CC
WIRELESS	1	5	18	48 ✓	34	MI	CC
<u>SUPPLIED FROM DFB "B"</u>							
SEARCHLIGHT	1	1.5	9	9.5 ✓	12	VIR	LC & MWB
<u>SUPPLIED FROM DFB "A"</u>							
MASTHEADLIGHT 1	1	1.5	0.4	9.5 ✓	20	VIR	HR type VB
MASTHEADLIGHT 2	1	1.5	0.4	9.5 ✓	24	VIR	HR type VB
MASTHEADLIGHT 3	1	1.5	0.4	9.5 ✓	28	VIR	HR type VB
SIDELIGHT PORT	1	1.5	0.4	9.5 ✓	16	VIR	LC & MWB
SIDELIGHT STBD	1	1.5	0.4	9.5 ✓	16	VIR	LC & MWB
STERNLIGHT	1	1	0.4	5 ✓	82	MI	CC
SIGNALLING LAMP	1	1.5	3	9.5 ✓	8	VIR	LC & MWB
FLASHING LIGHT	1	1.5	1.2	9.5 ✓	32	VIR	LC & MWB

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.							
<u>SUPPLIED FROM MAINSWITCHBOARD</u>									
from diesel driven or shaft driven generator altern									
GENERAL SERVICE PUMP	1	4	1	5	32	48 ✓	20	MI	CC
LUBRICATING OIL PUMP	1	2.5	1	5	20	48 ✓	20	MI	CC
FUEL OIL TRANSFERPUMP	1	1	1	2	8.5	15 ✓	20	MI	CC
VENT.FAN ACC. FORE	1	1.5	1	3	13.2	30 ✓	35	MI	CC
VENT.FAN ACC. AFTER	1	1	1	2	9.8	15 ✓	32	MI	CC
DRINKINGWATER HYDROPHORPUMP	1	0.55	1	2	4.8	15 ✓	16	MI	CC
SEAWATER HYDROPHORPUMP	1	0.55	1	2	4.8	15 ✓	52	MI	CC
FRESHWATER HYDROPHORPUMP	1	0.55	1	2	4.8	15 ✓	51	MI	CC
CARGOWINCH	1	4	1	5	32	48 ✓	32	MI	CC
REFRIGERATOR	1	1	1	2	8.8	15 ✓	16	MI	CC
from diesel driven generator only									
WINDLASS	1	8	1	10	65	94 ✓	64	MI	CC
<u>SUPPLIED FROM DEB "B"</u>									
<u>DOMESTIC REFRIGERATORS</u> PANTRY & SALOON	2	0.25	1	1.5	2.1	9.5 ✓	30"	VIR	LC & MWB

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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.

Electro en Radio Technisch Bureau

*J. B. de Boer* N.V.

Ven. Hoofdstr. 86, Hoogezand, Tel. 2127

Electrical Contractors.

Date *8/10-53*

#### COMPASSES.

Have the compasses been adjusted under working conditions.....

*BODEWES SCHEEPSWERVEN N.V.*

Builder's Signature.

Date *8/10-53*

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 *"BOGA" Stapel N° 26*

Plans. Are approved plans forwarded herewith... *no* If not, state date of approval *23-1-53*

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

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 conformity with the Society's Rules and Regulations and in accordance with the Secretary's letter and the approved plans.*

*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 classed vessel.*

*Noted 98 4/11/53*

Total Capacity of Generators *25* ☒ Kilowatts.

The amount of Fee ... *fl. 275.-* : When applied for,

*9-10-1953*

Travelling Expenses (if any) *fl. 54.-* : When received,

*19*

*(incl. teleph. charges)*

*[Signature]*  
Surveyor to Lloyd's Register of Shipping.

Committee's Minute *THURSDAY 12 NOV 1953*

Assigned *See Rpt. 46.*

2m.850.—Transfer. (MADE AND PRINTED IN ENGLAND.)  
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

*X. J. van  
12.10.53  
B*



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