

NOV 1953

Rpt. 13.

No. 868052.

# REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

Date of writing Report 19 When handed in at Local Office 12. 11. 1953 Port of Rotterdam  
 No. in Survey held at Zaltbommel Date, First Survey 5-9-52 Last Survey 6-7-1953  
 Reg. Book. (No. of Visits 11)

04528 on the M.V. BURDJAMHAL

Gross 1131.64  
 Net 591.60

Built at Zaltbommel By whom built yard, de Waal Yard No. 642 When built 1953

Owners INDONESIAN GOVERNMENT Port belonging to DJAKARTA

Installation fitted by Messrs H. Croon & Co When fitted 1953

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

Plans, have they been submitted and approved yes System of Distribution two 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 yes 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

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 St bd 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 3 pole CB's (one pole used for equaliser) with O/C protection in twin poles and R/C protection in positive pole CB equipped with preference signal

and the switch and fuse gear (or circuit breakers) for each outgoing circuit DP switches and DP 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 /, and tested /

Switches, Circuit Breakers and Fuses, are they as per Rule yes, are the fuses an Approved Type yes

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 100% direct acting 25% with time delay, and at what current do the reverse current protective

devices operate 15% current rating generator 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 /

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 & VIR LC & MWB, galleys MICC

and laundries / State how the cables are supported or protected Machinery spaces: CC cable or

LC & MWB cable clipped to perforated plating. Cargo holds: MICC (for lighting only)

Accommodation spaces: VIR LC clipped to wooden grounds or surface

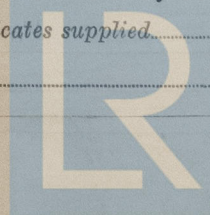
Are all lead sheaths, armouring and conduits effectually bonded and earthed yes Are all cables passing through decks and watertight

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 / and test certificates supplied

Are the motors accessible for maintenance at all times /



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PARTICULARS OF GENERATING PLANT.

GENERATOR CABLES

MAIN DISTRIBUTION CABLES (to Auxiliary Switchboards, etc.)

[illegible]

DESCRIPTION.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (feet plus waste).	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 SB "2"</u>							
STREAMLINE FILTER 1	1	3.2	15 ✓	30	20	MI	CC
STREAMLINE FILTER 2	1	3.2	15 ✓	30	24	MI	CC
<u>SUPPLIED FROM SB "4"</u>							
COFFEE-MACHINE OFF GALLEY	1	2	9 ✓	15	20	MI	CC
RECEPTACLE 1 IRONING ROOM	1	1	4.5 ✓	5	36	MI	CC
BOILER HOSPITAL	1	3.2	14 ✓	30	40	MI	CC
STERILIZER	1	2.5	5 ✓	15.5	40	VIR	LC & MWB
RECEPTACLE PANTRY PETTY OFF.	1	1.5	5 ✓	9.5	46	VIR	LC & MWB
COFFEE-MACHINE PANTRY PETTY OFF	1	2.5	9 ✓	15.5	46	VIR	LC & MWB
RECEPTACLE 2 IRONING ROOM	1	1	4.5 ✓	5	38	MI	CC
RECEPTACLE 3 IRONING ROOM	1	1	4.5 ✓	5	44	MI	CC
RECEPTACLE 1 LAUNDRY	1	2	9 ✓	15	26	MI	CC
RECEPTACLE 2 LAUNDRY	1	2	9 ✓	15	30	MI	CC
<u>SUPPLIED FROM DFB-4A</u>							
RECEPTACLE PANTRY OFF.	1	1.5	5 ✓	9.5	24	VIR	LC & MWB
COFFEE-MACHINE PANTRY OFF.	1	2.5	9 ✓	15.5	24	VIR	LC & MWB
RECEPTACLE PANTRY CREW	1	1.5	5 ✓	9.5	18	VIR	LC & MWB
COFFEE-MACHINE PANTRY CREW	1	2.5	9 ✓	15.5	16	VIR	LC & MWB
<u>SUPPLIED FROM AUX. NAV. BOARD "A2"</u>							
WATLAMP UPPER BRIDGE DECK AFTER	1	1	4 ✓	5	60	MI	CC
WATLAMP UPPER BRIDGE DECK FORE	1	1	4 ✓	5	30	MI	CC
SEARCHLIGHT	1	2	9 ✓	15	20	MI	CC
ECHOSOUNDER	1	1.5	5 ✓	9.5	16	VIR	LC & MWB
DEEP SEA ECHOSOUNDER	1	1.5	5 ✓	9.5	16	VIR	LC & MWB
BUDDER INDICATOR	1	1	0.5 ✓	5	16	MI	CC
GENERAL ALARM	1	1	1 ✓	5	12	MI	CC
PEAR VIEW SCREEN	1	1.5	1 ✓	9.5	20	VIR	LC & MWB
DIRECTION FINDER	1	1.5	1 ✓	9.5	14	VIR	LC & MWB
<u>SUPPLIED FROM NAVIGATION BOARD "A1"</u>							
WATHEADLIGHT FORE 1	1	1	0.4 ✓	5	44	MI	CC
WATHEADLIGHT FORE 2	1	1	0.4 ✓	5	40	MI	CC
WATHEADLIGHT STBD	1	1	0.4 ✓	5	30	MI	CC
WATHEADLIGHT PORT	1	1	0.4 ✓	5	20	MI	CC
WATHEADLIGHT AFTER	1	1	0.4 ✓	5	100	MI	CC
WATHEADLIGHT	1	1	0.4 ✓	5	134	MI	CC
WATHEADLIGHT	1	1.5	1.2 ✓	9.5	30	VIR	LC & MWB
WATHEADLIGHT	1	1.5	3 ✓	9.5	20	VIR	LC & MWB

SUPPLIED FROM SB "3"		Nº	B.H.P.							
REFR. COMPRESSOR	1	2.7	1	5	23.2	48	40	MI	CC	
REFR. FAN VEGETABLES ROOM	1	0.1 kW	1	1	1	5	36	MI	CC	
REFR. COOLING WATER PUMP	1	0.5	1	2	3.6	15	40	MI	CC	
REFR. FAN MEAT ROOM	1	0.2 kW	1	1	1.5	5	45	MI	CC	
SUPPLIED FROM SB "4"										
VENT. FANS OIL BURNERS OFF'S GALLEY	2	0.03 kW	1	2	0.5	15	30	MI	CC	
REFR. PANTRY PETTY OFF.	1	0.25	1	1.5	2.6	9.5	42	VIR	LC & MWB	
VENT. FANS OIL BURNERS CREW'S GALLEY	2	0.03 kW	1	2	0.5	15	80	MI	CC	
SUPPLIED FROM DFB "4A"										
REFR. PANTRY OFF.	1	0.25	1	1.5	2.6	9.5	16	VIR	LC & MWB	
DRINKING WATER COOLER	1	0.5	1	1.5	5.2	9.5	10	VIR	LC & MWB	
REFR. CAPTAIN'S DAY ROOM	1	0.25	1	1.5	2.6	9.5	26	VIR	LC & MWB	



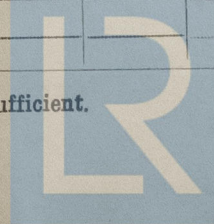
DISTRIBUTION CABLES (to Section-Boards and Distribution-Fuse-Boards, etc.).

DESCRIPTION.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return <del>feet</del> <sup>m.</sup> ).	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>							
SB POWER WORKSHOP ENGINE ROOM "1"	1	8	25 ✓	80	24	MI	CC
SB VENTILATING FANS "5"	1	32	156 ✓	170	31	MI	CC
SB CARGO & BOATWINCHES "6"	1	50	199 ✓	225	31	MI	CC
SB POWER ENGINE ROOM "2"	1	8	54 ✓	80	40	MI	CC
<u>SUPPLIED FROM EMERGENCY SWITCHBOARD</u>							
SB REFRIGERATING INSTALLATION "3"	1	8	28 ✓	80	70	MI	CC
SB DOMESTIC SERVICE "4"	1	25	80 ✓	150	36	MI	CC
DFB LIGHTING ENGINE ROOM "E"	1	3.2	17 ✓	30	41	MI	CC
DFB NAVIGATION "A1"	1	2	4 ✓	15	35	MI	CC
DFB NAVIGATION & AUX. NAVIGATION "A1+A2"	1	8	45 ✓	80	48	MI	CC
DFB LIGHTING MIDSHIP & FORESHIP "B1+B2"	1	8	55 ✓	80	82	MI	CC
DFB LIGHTING AFTERSHIP "C1+C2"	1	16	58 ✓	115	100	MI	CC
DFB LIGHTING ENGINE ROOM "D"	1	2	13 ✓	15	30	MI	CC
<u>SUPPLIED FROM SB "4"</u>							
DFB DOMESTIC SERVICE "4A"	1	10	35 ✓	24	54	MI	CC
<u>SUPPLIED FROM MAINSWITCHBOARD</u>							
FUEL OIL HEATER	1	8	44 ✓	80	36	MI	CC
<u>SUPPLIED FROM EMERGENCY SWITCHBOARD</u>							
FILM INSTALLATION	1	5	15 ✓	48	60	MI	CC
CHARGING BOARD	1	8	8 ✓	80	41	MI	CC
GYROCOMPASS	1	2	5 ✓	15	27	MI	CC
RADAR	1	3.2	11 ✓	30	27	MI	CC
WIRELESS	1	10	30 ✓	94	17	MI	CC
SALLOG	1	1	3.2 ✓	5	27	MI	CC

MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.							
<u>SUPPLIED FROM MAINSWITCHBOARD</u>									
SPARE SALTWATER PUMP	1	17	1	40	128 ✓	202	39	MI	CC
WINDLASS	1	30	1	100	220 ✓	335	100	MI	CC
BALLAST PUMP	1	17	1	40	128 ✓	202	34	MI	CC
GENERAL SERVICE PUMP	1	17	1	40	128 ✓	202	33	MI	CC
SPARE LUBRICATING OIL PUMP	1	2	1	5	17.6 ✓	48	46	MI	CC
FUEL OIL TRANSFER PUMPS	2	5	1	8	38 ✓	80	56-58	MI	CC
FUEL OIL PURIFIER	1	3	1	5	23.2 ✓	48	46	MI	CC
CAPSTAN	1	12	1	25	92 ✓	150	96	MI	CC
STEERING ENGINE PUMP MOTOR	1	4	1	8	31 ✓	80	104	MI	CC
AIR COMPRESSORS	2	12	1	16	90 ✓	115	27-30	MI	CC
<u>SUPPLIED FROM EMERGENCY SWITCHBOARD</u>									
HYDROPHOR PUMPS	3	1.5-1.6	1	3.2	13-14.3	30	69-86	MI	CC
EMERGENCY BILGE PUMP	1	13	1	25	100 ✓	150	57	MI	CC
<u>SUPPLIED FROM SB "1"</u>									
LATHE	1	1.5	1	3.2	13 ✓	30	12	MI	CC
DRILLING MACHINE	1	0.75	1	2	6.2 ✓	15	6	MI	CC
GRINDER	1	0.75	1	2	6.2 ✓	15	6	MI	CC
<u>SUPPLIED FROM SB "5"</u>									
VENT. FANS 4+5	2	0.92	1	2	7 ✓	15	32-44	MI	CC
VENT. FAN 1	1	5	1	5	37.8 ✓	48	64	MI	CC
VENT. FAN 7	1	7.5	1	8	59 ✓	80	68	MI	CC
COMPRESSOR AIRCOND.	1	3	1	5	25.6 ✓	48	96	MI	CC
VENT. FAN 2	1	0.54	1	2	5.5 ✓	15	32	MI	CC
VENT. FAN AIRCOND.	1	0.75	1	5	7.2 ✓	48	70	MI	CC
VENT. FAN 3	1	0.052	1	2	0.5 ✓	15	32	MI	CC
COOLING WATER PUMP AIRCOND.	1	0.5	1	2	4.9 ✓	15	60	MI	CC
VENT. FAN 6	1	0.13	1	2	1.75 ✓	15	60	MI	CC
<u>SUPPLIED FROM SB "6"</u>									
CARGO WINCHES	3	15	1	25	111 ✓	150	72-76	MI	CC
BOAT WINCHES	6	6.3	1	8	51 ✓	80	22-78	MI	CC
<u>SUPPLIED FROM SB "2"</u>									
STREAMLINE FILTER PUMPS	2	0.25	1	2	3 ✓	15	20-24	MI	CC
SPARE LUBRICATING OIL PUMP	1	2	1	3.2	17.6 ✓	30	30	MI	CC

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



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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.

N.V. Rotterdamse Electriciteits Mij  
v/h H. CROON & Co

Electrical Contractors.

Date 23-7-53.

#### COMPASSES.

Have the compasses been adjusted under working conditions yes

SCHEEPSWERF "DE WAAL" N.V.

Builder's Signature.

Date

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

Is this installation a duplicate of a previous case no If so, state name of vessel 1

Plans. Are approved plans forwarded herewith no If not, state date of approval 24-12-1952

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 accordance with the Society's Rules, Secretary's letters and approved plan or equivalent thereto

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

The equipment is in my opinion suitable for a classed vessel.

noted JS  
17/11/53

Total Capacity of Generators 198 Kilowatts.

The amount of Fee ... £4 789. = When applied for,

12.11. 1953

Travelling Expenses (if any) £2 133. 50 : When received,

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Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned See Dja Ref. 3849.