

Rpt. 13.

No. 19/60

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 19 Port of Amsterdam
 No. in Survey held at Leiden Date, First Survey 12.8.53 Last Survey 22-8-1953
 Reg. Book. (No. of Visits 2)
 on the M.V. "BEKAKA" Tons { Gross...
 Net...
 Built at Leiden By whom built Boat Brak. Yard No. 1427 When built 8/53
 Owners... Port belonging to...
 Installation fitted by Croon & Co When fitted 8/53
 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 D.C 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 / 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 /

10 SEP 1954

Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule...yes... Emergency Supply, state position

Navigation Lamps, are they separately wired...yes... controlled by separate double 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...state battery capacity in ampere hours... 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...

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, weatherproof...yes...

Searchlights, No. of one, whether fixed or portable...fixed... are they of the carbon arc or of the filament type...filament type...

Heating and Cooking, is the general construction as per Rule...are the frames effectually earthed...are heaters in the accommodation of the convection type...Motors, are all motors constructed and installed as per Rule and placed in well-ventilated compartments in which inflammable gases cannot accumulate and protected from damage from water, steam and oil...yes...

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...

Lightning Conductors, where required are they fitted as per Rule...

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 with...are all fuses of an Approved Cartridge Type...make of fuse...Are the fittings for pump rooms, tween deck spaces, etc., in accordance with the special requirements for such ships...Are all cables lead covered as per Rule...

E.S.D., if fitted state maker...location of transmitter and receiver...

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

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				TYPE.	PRIME MOVER.
			Kw. per Generator.	Volts.	Ampères.	Revs. per Min.		
MAIN ...	1	Smit Slikkerveer	15	115	130	1000	Diesel	Kramhout
	1	Smit Slikkerveer	10	115	87	900/1800	shaft driven	Werkspoor
EMERGENCY ...								
ROTARY TRANSFORMER								

GENERATOR CABLES.

DESCRIPTION.	No. of	Kw.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead 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.			
① MAIN GENERATOR (Diesel driven).	1	15	1	20	130	132	20	MI	CC
" " EQUALISER									
② " " (shaft driven)	1	10	1	16	87	115	16	MI	CC
EMERGENCY GENERATOR									
ROTARY TRANSFORMER: MOTOR									
" " GENERATOR									

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

DESCRIPTION.

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

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 ✓	40	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	10 ✓	40	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
MASTHEADLIGHT 2	1	1.5	0.4 ✓	9.5	24	VIR	HR type
MASTHEADLIGHT 3	1	1.5	0.4 ✓	9.5	20	VIR	HR type
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	02	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.

MOTOR CABLES.

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 ✓	40	20	MI	CC
LUBRICATING OIL PUMP	1	2.5	1	5	20 ✓	48	28	MI	CC
FUEL OIL TRANSFER PUMP	1	1	1	2	8.5 ✓	15	28	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
DRINKING WATER HYDROPHOR PUMP	1	0.55	1	2	4.8 ✓	15	16	MI	CC
SEAWATER HYDROPHOR PUMP	1	0.55	1	2	4.8 ✓	15	52	MI	CC
FRESH WATER HYDROPHOR PUMP	1	0.55	1	2	4.8 ✓	15	51	MI	CC
CARGO WINCH	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>									
DOMESTIC REFRIGERATORS PANTRY & SALOON	2	0.25	1	1.5	2.1 ✓	9.5	30	VIR	LC & MWB

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.

N.V. Rotterdamsche Electriciteits Mij.

v/h H. CROON & Co.

DIR.

Electrical Contractors.

Date 11-8-53

COMPASSES.

Have the compasses been adjusted under working conditions.

N.V. SCHEEPSBOUW EN REPARATIEWERF

voorheen GEERs. BOOT

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 yes If so, state name of vessel "BOGA" Stapel No 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 JH

24/11/53

Total Capacity of Generators 25 V Kilowatts.

The amount of Fee ...

£ 245 =

When applied for,

5-11-1953

Travelling Expenses (if any) £ 1650

When received,

19

A. Bailey.

Surveyor to Lloyd's Register of Shipping.

Committee's Minute.

THURSDAY 26 NOV 1953

Assigned See Rpt. 46.



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Foundation