

No. 35488C

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL) Received at London Office 11 NOV 1952

Writing Report 5-10 1952 When handed in at Local Office 7-10 1952 Port of Rotterdam
 Survey held at Sliedrecht Date, First Survey 27 May '52 Last Survey 25 Aug 1952
 (No. of Visits 7)
 Tons { Gross 194.34 Net 75.55
 on the M.V. "BOENGO"
 at Sliedrecht By whom built de Klop Yard No. 20180 When built 8/52
 Republic Indonesia Port belonging to Djakarta
 fitted by M. R. de Vries & Co When fitted 8/52

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
 System of Distribution two wire insulated Voltage of Lighting 110
 Power 110 D.C. or A.C., Lighting DC Power DC If A.C. state frequency
 Movers, has the governing been found as per Rule when full load is thrown on and off yes Are turbine emergency governors fitted
 trip switch yes (except shaft-driven generator) Generators, are they compound wound V, and level compounded under working conditions yes
 generators arranged to run in parallel no Is the compound winding connected to the negative or positive pole negative
 machines 100 kw. and over been inspected by the Surveyors during manufacture and testing Have certificates of test for machines
 100 kw. been supplied and the results found as per Rule Position of Generators E.R. floor level port side

ventilation in way of generators satisfactory yes are they clear of inflammable material and protected from mechanical injury and
 from water, steam and oil yes Switchboards, where are main switchboards placed E.R. floor level starboard
 in accessible positions, free from inflammable gases and acid fumes and protected from mechanical injury and damage from water,
 and oil yes, what insulation is used for the panels dead front type switchboards, 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
 Is the construction as per Rule, including locking of screws and nuts yes Description of Main Switchgear
 generator and arrangement of equaliser switches DP switch & DP fuses

switch and fuse gear (or circuit breakers) for each outgoing circuit DP switch & DP fuses
 compartments containing switchboards composed of fire-resisting material or lined as per Rule yes Instruments on main switchboard 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.
 for each busbar system Preference Tripping, state if provided, and tested
 Circuit Breakers and Fuses, are they as per Rule yes, are the fuses an Approved Type yes (KEMA approved)
 of fuses Hasemeyer & Weber, are all fuses labelled yes If circuit breakers are provided for the generators, at what
 current do they operate, and at what current do the reverse current protective
 devices operate Cables, are they insulated and protected as per Rule yes
 otherwise than as per Rule are they of an Approved Type, state maximum fall of pressure between bus bars and any point
 maximum load < 4% volts. Are all paper insulated and varnished cambric insulated cables sealed at the ends
 all the cable runs in accessible positions not exposed to drip or accumulation of water or oil, high temperatures or risk of mechanical
 injury yes, are any cables laid under machines or floorplates no, if so, are they adequately protected State
 cables (if in conduit this should also be stated) in machinery spaces MICC, LC & MWB, galleys MICC
 State how the cables are supported or protected Machinery spaces E.R. or
 MWB cable clipped to perforated plating

lead sheaths, armouring and conduits effectually bonded and earthed yes Are all cables passing through decks and watertight
 doors provided with deck tubes or watertight glands yes, where unarmoured cables pass through beams, etc., are the holes
 adequately bushed yes Refrigerated chambers, are the cables and fittings as per Rule
 refrigeration fan motors been constructed under survey and test certificates supplied
 fan motors accessible for maintenance at all times

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

Navigation Lamps, are they separately wired yes controlled by separate double pole switches and fuses yes. Are the switches and fuses 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 yes, state battery capacity yes ampere hours yes. Where required to do so does it comply with 1948 International Convention yes.

Lighting, is fluorescent lighting fitted no. If so, state nominal lamp voltage no and compartments where lamps are fitted no.

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 yes, are the frames effectually earthed yes, are heaters in accommodation of the convection type yes. 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 yes.

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

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

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. | | MAKER. | |
| MAIN | 1 | Smit Slikkerveer | 12.5 | 115 | 109 | 1000 | Suezal | Kromhout | |
| | 1 | " | 10 | 115 | 87 | 900/1800 | Shaftdriven | Westport | |
| 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. | | | |
| MAIN GENERATOR (Diesel driven) | 1 | 12.5 | 1 | 63 | 109 | 255 | 32 | MI | CC |
| " " EQUALISER | | | | | | | | | |
| " " (Shaft driven) | 1 | 10 | 1 | 32 | 87 | 170 | 24 | MI | CC |
| EMERGENCY GENERATOR | | | | | | | | | |
| ROTARY TRANSFORMER: MOTOR | | | | | | | | | |
| " " GENERATOR | | | | | | | | | |

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

| DESCRIPTION. | No. of | Kw. | No. in Parallel per Pole. | Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm. | MAXIMUM CURRENT IN AMPERES. | APPROX. LENGTH (lead plus return feet). | INSULATION. | PROTECTIVE COVERING. |
|--------------|--------|-----|---------------------------|--|-----------------------------|---|-------------|----------------------|
| / | | | | | | | | |

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

| DESCRIPTION. | 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. | | | |
| APPLIED FROM MAIN SWITCH BOARD | | | | | | | |
| from diesel driven or shaft driven generator | | | | | | | |
| FB navigation lighting | A | 1 | 3.2 | 3 | 30 | 46 | |
| lighting bridge space & pass | B | 1 | 5 | 22 | 58 | 46 | |
| lighting aft & ER | C | 1 | 5 | 18 | 58 | 16 | MI CC |
| lighting main deck & ER & (acceptable for portable boatwinch) | | 1 | 3.2 | 25 | 30 | 16 | |
| indoor equipment | | 1 | 5 | 18 | 58 | 34 | |
| APPLIED FROM NAVIGATION LIGHTING DFB | | | | | | | |
| starboard light | | 1 | 1.5 | 0.4 | 9.5 | 24 | |
| " " " " 2 | | 1 | 1.5 | 0.4 | 9.5 | 20 | VIR HR type |
| " " " " 3 | | 1 | 1.5 | 0.4 | 9.5 | 16 | |
| port side light | | 1 | 1.5 | 0.4 | 9.5 | 16 | VIR LC & MWB |
| board side light | | 1 | 1.5 | 0.4 | 9.5 | 12 | |
| main light | | 1 | 1 | 0.4 | 5 | 90 | MI CC |
| radio signalling light | | 1 | 1.5 | 0.4 | 9.5 | 8 | VIR LC & MWB |
| bow light | | 1 | 1.5 | 0.4 | 9.5 | 80 | |

ALL IMPORTANT MOTORS TO BE ENUMERATED.

| DESCRIPTION. | No. | B.H.P. | No. in Parallel per Pole. | Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm. | MAXIMUM CURRENT IN AMPERES. | APPROX. LENGTH (lead plus return feet). | INSULATION. | PROTECTIVE COVERING. |
|--|--------|--------|---------------------------|--|-----------------------------|---|-------------|----------------------|
| APPLIED FROM MAIN SWITCH BOARD | | | | | | | | |
| from diesel driven or shaft driven generator | | | | | | | | |
| fuel oil transfer pump | 1 | 1 | 3.2 | 8.5 | 30 | 36 | | |
| fresh water hydrophos pump | 0.64 | 1 | 3.2 | 6.1 | 30 | 32 | | |
| " " " " | 0.64 | 1 | 3.2 | 6.1 | 30 | 30 | | |
| int. fan accomm. app. | 0.27kW | 1 | 3.2 | 4.8 | 30 | 32 | MI CC | |
| " " " " | 0.55kW | 1 | 3.2 | 6.7 | 30 | 40 | | |
| General Service pump | 6 | 1 | 10 | 46 | 94 | 20 | | |
| lub. oil pump | 2.5 | 1 | 8 | 20 | 80 | 18 | | |
| from diesel driven generator only | | | | | | | | |
| Windlass | 18 | 1 | 10 | 65 | 94 | 54 | MI CC | |
| APPLIED FROM DEFC | | | | | | | | |
| winching water hydrophos pump | 0.5 | 1 | 3.2 | 4.8 | 30 | 34 | MI CC | |
| refrigerator | 0.74kW | 1 | 3.2 | 9.4 | 30 | 12 | | |
| APPLIED FROM DEFB | | | | | | | | |
| domestic refrigerator | 0.175 | 1 | 3.2 | 1.8 | 30 | 12 | MI CC | |
| " " " " | 0.175 | 1 | 3.2 | 1.8 | 30 | 14 | | |

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.

DVE

Electrical Contractors. Date

COMPASSES.

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

N.V. SCHEEPSBOUW
EN MACHINEFABRIEK
"DE KLOP"

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.

Plans. Are approved plans forwarded herewith. *no* If not, state date of approval. *24-12-51*

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 the Secretary's letter and the 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 under full working conditions and found satisfactory

This equipment is in my opinion suitable for a classed vessel

Total Capacity of Generators *22.5* Kilowatts.

The amount of Fee ... *£ 315.-* : When applied for, *17/11 1952*

Travelling Expenses (if any) *£ 0.17-* : When received, *19*

W. Hall / *H. v. d. Sluis*
Surveyor to Lloyd's Register of Shipping.

TUES. 6 JAN 1953

Committee's Minute

Assigned *See F.E. Melby, opt*

2m. 5.50.—Transfer. (MADE AND PRINTED IN ENGLAND.)
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

X. Ren
14.11.52



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