

Rpt. 13.

No. 10724

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

16 MAR 1953

Date of writing Report 5-3 1953 When handed in at Local Office 10-3 1953 Port of Amsterdam

No. in Survey held at Alphen a/d Ryn Date, First Survey 11-11-52 Last Survey 4-2 1953
Reg. Book. (No. of Visits 4)

on the Motor patrol vessel "BIDO" Tons { Gross 194.34, Net 75.55

Built at Alphen a/d Ryn By whom built de Vries Lentsch Yard No. C0183 When built 16-12-52

Owners "Republik Indonesia" Port belonging to Djakarta

Installation fitted by N.V. R.E.M. 't H. Coen & Co When fitted 16-12-52

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

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

with a trip switch — Generators, are they compound wound ~~that drive~~ Diesel driven: yes and level compounded under working conditions Diesel driven: 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 E.R. 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 E.R. St. Bd. side against hull

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 D.P. switches & D.P. fuses

and the switch and fuse gear (or circuit breakers) for each outgoing circuit D.P. change over switch & D.P. fuses,

only the windlass has D.P. switch & D.P. fuses on the diesel driven generator

busbars

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 two sets

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 (NEMA approved)

make of fuses Hazemeyer & Weber, 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 < 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 MLC & VIR-LLC & MNB, galleys MLC

and laundries — State how the cables are supported or protected CC & MNB cable clipped to

perforated plating; full plating - or wooden cable runs

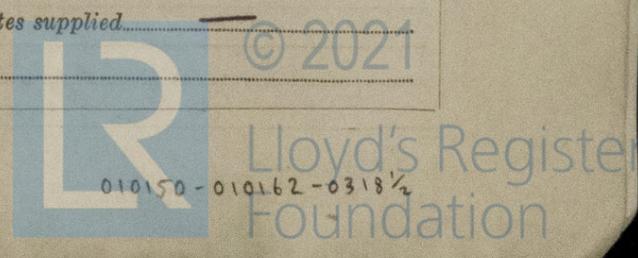
Are all lead sheaths, armouring and conduits effectually bonded and earthed yes Are all cables passing through decks and watertight

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 —



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.

Table with columns: DESCRIPTION OF GENERATOR, No. of, MAKER, RATED AT (Kw. per Generator, Volts, Ampères, Revs. per Min.), PRIME MOVER (TYPE, MAKER). Includes entries for Smit Slikkerveer generators.

GENERATOR CABLES.

Table with columns: DESCRIPTION, No. of, Kw., CONDUCTORS (No. in Parallel per Pole, Sectional Area or No. and Dia. of Strands), MAXIMUM CURRENT IN AMPERES (In the Circuit, Rule), APPROX. LENGTH (lead plus return), INSULATION, PROTECTIVE COVERING. Includes entries for MAIN GENERATOR and EQUALISER.

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

Table with columns: DESCRIPTION, No. of, Kw., CONDUCTORS, MAXIMUM CURRENT, APPROX. LENGTH, INSULATION, PROTECTIVE COVERING. (This table is mostly empty in the image).

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

Table with columns: DESCRIPTION, CONDUCTORS (No. in Parallel per Pole, Sectional Area or No. and Dia. of Strands), MAXIMUM CURRENT IN AMPERES (In the Circuit, Rule), APPROX. LENGTH (lead plus return), INSULATION, PROTECTIVE COVERING. Includes entries for SUPPLIED FROM MAIN SWITCHBOARD and SUPPLIED FROM DEB: A.

MOTOR CABLES.

Table with columns: ALL IMPORTANT MOTORS TO BE ENUMERATED, No., B.H.P., CONDUCTORS, MAXIMUM CURRENT, APPROX. LENGTH, INSULATION, PROTECTIVE COVERING. Includes entries for SUPPLIED FROM MAIN SWITCHBOARD and SUPPLIED FROM DEB: B.

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. GROON & Co. DIR.

Electrical Contractors.

Date 15-1-53

COMPASSES.

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

N.V. AMSTERDAMSCH E SCHEEPSWERF
O. de Vries Lentsch Jr.
FILIAAL ALPHEN a/d Rijn

Builder's Signature.

Date 17-2-53

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..... BANGO

Plans. Are approved plans forwarded herewith..... no If not, state date of approval..... 14-12-1951

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 letters and the approved plans 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 closed vessel.

2m.8.50.—Transfer. (MADE AND PRINTED IN ENGLAND.)
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

Total Capacity of Generators..... 22.5 Kilowatts.

The amount of Fee ... fl. 315.= : When applied for, 12-3-1953

Travelling Expenses (if any) fl. 23.= : When received, 19

W. Hall (H.V.A. BLUJIS)
Surveyor to Lloyd's Register of Shipping.

Committee's Minute..... FRIDAY 17 JUL 1953

Assigned..... See minute on
fe master's office



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