

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

28 AUG 1953

Date of writing Report 21-8-1953 When handed in at Local Office 1953 Port of GRONINGEN

No. in Survey held at WESTERBROEK Date, First Survey 20-5-53 Last Survey 20-8-1953

Reg. Book.

(No. of Visits 10)

on the N.V. "PERMATA" Tons { Gross 664.89
Net 439.36

Built at WESTERBROEK By whom built N.V. E.J. SMIT & ZN'S SCHUY Yard No. 727 When built 1953

Owners: REPUBLIC INDONESIA Port belonging to DIKARTTA

Installation fitted by MESSRS HERMAN G. ECKELS N.V. When fitted 1953

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

Plans, have they been submitted and approved YES System of Distribution 2 WIRE INSULATED Voltage of Lighting 110

Heating NO Power NO 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, if not compound wound state distance between generators ✓ and from switchboard ✓

Are the generators arranged to run in parallel NO, are shunt field regulators provided YES

Is the compound winding connected to the negative or positive pole NEGATIVE

Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing ✓ Have certificates of test for machines under 100 kw. been supplied YES and the results found as per Rule YES

Position of Generators ER FLOOR LEVEL, 1 EMERGENCY DYNAMO ON BOAT DECK

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

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. SWITCH & D.P. FUSES

and the switch and fuse gear (or circuit breakers) for each outgoing circuit D.P.D.T. SWITCHES & D.P. FUSES

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule YES Instruments on main switchboard 3

ammeters 2 voltmeters ✓ synchronising devices. For compound machines in parallel are the ammeters and reversed current protection devices connected on the pole opposite to the equaliser connection ✓

Earth Testing, state means provided EARTH INDICATING LAMPS FOR EACH BUSBAR SYSTEM

Switches, Circuit Breakers and Fuses, are they as per Rule YES, are the fuses an Approved Type YES (KEMA APPRO.)

make of fuses WEBER & HAZEMEYER, 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 reversed current protective devices operate ✓

Joint Boxes, Section Boards and Distribution Boards, is the construction as per Rule YES

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 < 1%

are the ends of all cables having a sectional area of 0.01 square inch and above provided with soldering sockets YES

Are all paper insulated and varnished cambric insulated cables sealed at the ends YES

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 ✓

Are cables in machinery spaces, galleys, laundries, etc., lead covered NO or run in conduit NO

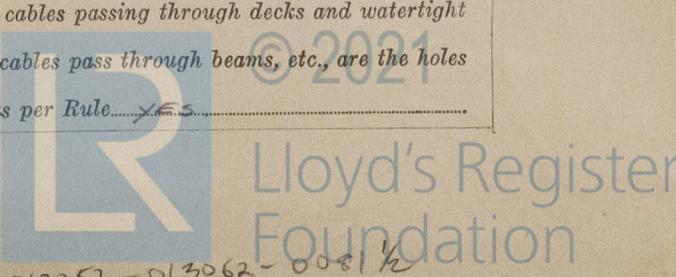
or of the "HR" type YES State how the cables are supported or protected MACH SPACES: HR TYPE CABLE CLIPPED TO PERFORATED PLATING - ACCOM SPACES: HR TYPE CABLE CLIPPED TO WOOD GROUNDS OR SURFACE - CARGO HOLES: HR TYPE CABLE CLIPPED TO SHEET IRON PLATE AND PROTECTED BY SHEET IRON COVERS.

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



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.

HERMAN G. EEKELS N.V.
 P. PROC. *Staub*
 Electrical Contractors. Date 24.8.53

COMPASSES.

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

N.V. E. J. SMIT & ZON
 J. OPPERSWERVEN
 WESTERBROEK

Builder's Signature.

Date 24.8.53

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... *BARLIAN, BIDURI*

Plans. Are approved plans forwarded herewith... NO If not, state date of approval... *30/6/53*

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

General Remarks. (State quality of workmanship, whether insulation tests, etc., have been made, 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 approved plans or equivalent details. - 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 and 18/9/53

Total Capacity of Generators... *62* Kilowatts.

The amount of Fee ... *fl. 534.-* : When applied for, *25.8 - 19.53.*

Travelling Expenses (if any) *fl. 91.-* : When received, *19.-*

J. Molenaar
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute... TUESDAY 22 SEP 1953

Assigned... *See Rpt 46.*

2m.9.46. - Transfer. (MADE AND PRINTED IN ENGLAND.)
 (The Surveyors are requested not to write on or below the space for Committee's Minute.)



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