

Rpt. 13.

REPORT ON ELECTRICAL EQUIPMENT.

No. 842^c

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report 24-6-1953 When handed in at Local Office 19 Received at London Office 23 JUL 1953

No. in Survey held at Madukuin Date, First Survey 4-2-53 Last Survey 20-6-1953
Reg. Book. (No. of Visits 13)

on the m "Biduri"
Built at Madukuin By whom built NT dehu Madukuin Yard No. 216 When built 1953
Owners Republk Indonesia Port belonging to Jakarta

Installation fitted by Mess Herman & Lebel NV 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 Voltage of Lighting 110
Heating no 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, 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 2nd floor level emergency dynamo on aft head 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 2nd floor level and aft head deck

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 end 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 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 2nd switch and 2nd fuses

and the switch and fuse gear (or circuit breakers) for each outgoing circuit 2nd switch and 2nd fuses

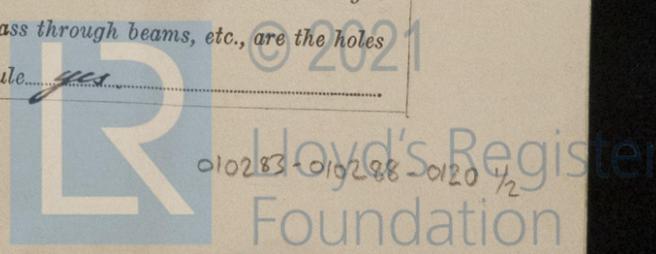
Are compartments containing switchboards composed of fire-resisting material or lined as per Rule yes Instruments on main switchboard 3 ammeters 2 voltmeters ✓ synchronising devices. For compound machines in parallel are the ammeters and reversed current protection devices connected on the pole opposite 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 (same type) make of fuses Wider & Marumyer, 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 2.67, 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: 2nd type cable clipped to perforated plating - Accom spaces: 2nd type cable clipped to wood grates or surface - Cargo hold: 2nd type cable clipped to steel iron plating 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



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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.



Electrical Contractors. Date 14/7/53

COMPASSES.

N.V. SCHEEPSWERF
WATERHUIZEN
J. PATJÉ
WATERHUIZEN
POST GRONINGEN

Have the compasses been tested under working conditions.

J. Patje

Builder's Signature. Date 14/7/53

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. *"Barbian"*

Plans. Are approved plans forwarded herewith. *no* If not, state date of approval. *20/6/53*

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 accordance with the Society's Rules and Regulations 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 tested under full working conditions and found satisfactory. This equipment is in our opinion suitable for a classed vessel.

noted 0211 30.7.53

Total Capacity of Generators. *62* Kilowatts.

The amount of Fee ... *£ 534.-* : When applied for, *24-6-1953*

Travelling Expenses (if any) *£ 95.-* : When received, *19*

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

Committee's Minute. **FRIDAY 14 AUG 1953**

Assigned. *See F.E. sketch, rpt.*

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.)

