

Rpt. 13

No. 4841

# REPORT ON ELECTRICAL EQUIPMENT

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

Date of writing Report 10-8-1963 When handed in at Local Office 19 Port of Yokohama

No. in Survey held at Yokosuka Date, First Survey 2-5-63 Last Survey 25-7-1963  
Reg. Book (No. of Visits 8)

on the "POLISI 511" Tons Gross 310 Net

Built at Yokosuka, Japan By whom built Uraga Heavy Industries Co. Ltd. Yard No. 832 When built July 1963

Owners The Government of the Republic of Indonesia Port belonging to DJAKARTA

Installation fitted by Uraga Heavy Industries Co., Ltd. When fitted July 1963

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. - Radar. Yes

Plans, have they been submitted and approved. Yes System of Distribution 3 phase - 3 wire 1 phase - 2 wire Voltage of Lighting 110 V

Heating 110 V Power 220 V D.C. or A.C. Lighting A.C. Power A.C. If A.C. state frequency 50 c/s

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. - and level compounded under working conditions. -

Are the generators arranged to run in parallel. Yes Is the compound winding connected to the negative or positive 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 Engine Room Main floor

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 Engine Room Main floor

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 Laminated phenolic resin, if of synthetic insulating material is it an Approved Type. Yes, 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. Trip free type air circuit breaker arranged to open simultaneously three insulated poles, with protection device against short-circuit, over current, reverse power and voltage drop.

and the switch and fuse gear (or circuit breakers) for each outgoing circuit. Molded case circuit breaker with automatic tripping device consisting of the thermo-electric magnet.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule. Yes Instruments on main switchboard 3 ammeters. 3 voltmeters. 1 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 indicating lamps of metallic filament 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 make of fuses UTSUNOMIYA "CELLO-LITE", are all fuses labelled. Yes If circuit breakers are provided for the generators, at what overload do they operate. 115 % Rated current, 20 Sec., and at what current do the reverse current protective devices operate. 15 % reverse power, 10 Sec.

Cables, are they insulated and protected as per Rule. No (JIS-C-3410) if otherwise than as per Rule are they of an Approved Type. Yes, state maximum fall of pressure between bus bars and any point under maximum load. 5.5 V 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. Yes, if so, are they adequately protected. Yes State type of cables (if in conduit this should also be stated) in machinery spaces. BYC & RYC, galleys. RYC

and laundries. - State how the cables are supported or protected. Supported by galvanized metal hangers or saddles and secured brass clips, and cables exposed to risk of mechanical damage are protected by steel plates or steel conduits.

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

Have refrigeration fan motors been constructed under survey. - and test certificates supplied.

Are the motors accessible for maintenance at all times. Yes



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7/120-215410-105410



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.

*[Signature]*

INSPECTION DEPARTMENT  
 URAGA SHIPBUILDING YARD,  
 URAGA HEAVY INDUSTRIES, LTD.

Electrical Contractors.

Date 12 - 8 - 63

COMPASSES

Have the compasses been adjusted under working conditions? Yes

*[Signature]*

INSPECTION DEPARTMENT  
 URAGA SHIPBUILDING YARD,  
 URAGA HEAVY INDUSTRIES, LTD.

Builder's Signature.

Date 12 - 8 - 63

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 "POLISI 507"

Plans. Are approved plans forwarded herewith? No If not, state date of approval 19-10-62, 20-10-62, 8-1-63, 25-1-63

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 constructed and installed under the supervision of the Society's Surveyors in accordance with the rules, approved plans, and Secretary's letters.

The quantity of workmanship and materials have been found satisfactory.

The electrical equipment has been examined under working condition, and insulation tested according to the rules.

It is submitted that the Electrical Equipment of this vessel is eligible to be classed with this Society with the notation of + LMC 7/63.

3m.560—Transfer. (MADE AND PRINTED IN ENGLAND) (The Surveyors are requested not to write on or below the space for Committee Minute.)

Total Capacity of Generators 112 Kilowatts.

The amount of Fee ... .. £	:	:	When applied for,
			19
Travelling Expenses (if any) £	:	:	When received,
			19

*[Signature]*

Surveyor to Lloyd's Register of Shipping  
 S. Yoshiyama

FRIDAY - 4 OCT 1963

Committee's Minute

Assigned *[Signature]*



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