

REPORT ON ELECTRICAL EQUIPMENT

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

Date of writing Report 9th Dec., 1963 When handed in at Local Office JAN - 8 1964 Port of KOBE

No. in Survey held at Osaka, Japan Date, First Survey 10th July, 1963 East Survey 19th Nov., 63
Reg. Book (No. of Visits 8) Gross 11087.53

on the Steel Single Screw m.s. "ORSHA"

Tons Net 6291.16

Built at Osaka, Japan By whom built Hitachi Shipbuilding & Eng. Co., Ltd., Sakurajima Shipyard Yard No. 3976 When built Nov., 1963

Owners V.O. "Sudoimport" Moscow U.S.S.R. Port belonging to Vladivostok

Installation fitted by Hitachi Shipbuilding & Engineering Co., Ltd., Sakurajima Shipyard When fitted Nov., 1963

Is vessel equipped for carrying Petroleum in bulk No Is vessel equipped with D.F. Yes E.S.D. Yes Gy.C. Yes Sub.Sig. - Radar Yes

Plans, have they been submitted and approved Yes System of Distribution Three phase three wire Voltage of Lighting 127V
Heating 380 & 127V Power 380V 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 - Self regulated type Generators, are they compound wound Yes, except aux. and level compounded under working conditions -

Are the generators arranged to run in parallel generator 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 Yes Have certificates of test for machines under 100 kw. been supplied and the results found as per Rule - Position of Generators Two main generator - port side

and one main generator starboard side on floor in engine room. Aux. generator - aft port side of 2nd deck in E.R.

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 Forward port side on floor in engine room

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 Phenolic resin bonded board 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 A triple pole linked air circuit breaker with over current and reverse power protection and a triple pole linked isolating knife switch.

and the switch and fuse gear (or circuit breakers) for each outgoing circuit A triple pole linked "No-Fuse" breaker with over current protection.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule Yes Instruments on main switchboard 8
ammeters 5 voltmeters 2 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 Three lamps
with metallic filament and ground meter with alarm device Preference Tripping, state if provided Yes and tested Yes

Switches, Circuit Breakers and Fuses, are they as per Rule Yes are the fuses an Approved Type Yes
make of fuses Hitachi "TH" Yes are all fuses labelled Yes If circuit breakers are provided for the generators, at what
overload do they operate 14% - 20 sec. and at what power do the reverse power protective
devices operate -15% - 10 sec. 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 19.6 volts. 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 Yes if so, are they adequately protected Yes State

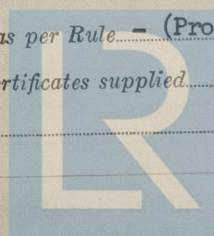
type of cables (if in conduit this should also be stated) in machinery spaces B.N.C. R.N.C. galleys B.N.C. R.N.C.
and laundries B.N.C. State how the cables are supported or protected Generally clipped to steel hangers

or saddles fitted directly to steel structure or wood structure and protected with heavy-gauge steel tube or steel plate where necessary.

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 - (Provision Store only)

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

Are the motors accessible for maintenance at all times -



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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.

M. Kamikawa Electrical Contractors. Date 12th Dec., 1963.
M. Kamikawa
Chief of Electric Outfitting Section

COMPASSES

Have the compasses been adjusted under working conditions yes

K. Sasaki Builder's Signature. Date 12th Dec., 1963.
K. Sasaki
Director, Yard Manager
Hitachi Shipbuilding & Engineering Co., Ltd.,
Sakurajima Shipyard

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 "OREKHOV"

Plans. Are approved plans forwarded herewith No If not, state date of approval 3-6-1963, 18-6-1963, 29-5-1963, 20-3-1963

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 electric equipment installed in this ship was examined and tested in accordance with the requirements of the Society's Rules and of the approved plans.

The materials are good and sound.

The generators, motors, etc. were examined and tested under full working conditions with satisfactory results.

Total Capacity of Generators 1,080 Kilowatts.

Installation: £291,000
The amount of Fee ... £291,000 When applied for, 19

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

M. Ishiwatari
Surveyor to Lloyd's Register of Shipping
M. Ishiwatari.

Committee's Minute FRIDAY 28 FEB 1964

Assigned Su Kot 11642



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10 FEB 1964

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