

11.1 AUG 1956

Rpt. 13.

No. 3799

# REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

Date of writing Report 19 When handed in at Local Office AUG - 4, 1956 19 Port of Kobe

No. in Survey held at Mukaishima, Japan Date, First Survey 14, Dec. 1955 Last Survey 30, March 1956  
Reg. Book. (No. of Visits 8)

on the Steel Single Screw Steamer "JAGUCHA" Tons { Gross 1972/ Net  
Built at Mukaishima, Japan By whom built Hitachi S.B. & E. Co., Ltd., Mukaishima Shipyard Yard No. 3757 When built 4 Mo. 1956  
Owners v/o Sudcoimport, Moscow, U.S.S.R. Port belonging to Igarka  
Installation fitted by Hitachi S.B. & E. Co., Ltd., Mukaishima Shipyard When fitted 4 Mo. 1956  
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 D.C. Voltage of Lighting 110  
Heating 110 Power 110 D.C. or A.C., Lighting D.C. Power D.C. 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  
Are the generators arranged to run in parallel No Is the compound winding connected to the negative or positive pole Negative

Have machines 100 kw. and over been inspected by the Surveyors during manufacture and testing None Have certificates of test for machines under 100 kw. been supplied and the results found as per Rule Yes Position of Generators Starboard side on engine room flat

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 Starboard aft on engine room flat

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 Bakelite, 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 for outgoing circuits  
For 10 K.W. Generator; 1, 150A Double pole knife switch and 125A fuse on each pole.  
For 5 K.W. Generator; 1, 60A Double pole knife switch and 60A fuse on each pole.  
and the switch and fuse gear for each outgoing circuit  
7, 60A Double pole change over switches with fuses 15, 20, 30, 10, 50, 40, 60 Amp. each

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  
1, tungsten filament lamp 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 Electric Works, 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 - 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 No, if so, are they adequately protected - State type of cables (if in conduit this should also be stated) in machinery spaces Lead sheathed & braided Lead sheathed & braided V.I.R. galleys V.I.R.  
and laundries State how the cables are supported or protected  
Groups of cable are supported on metal hanger and or backed by perforated steel plate.  
Lead through gas pipe on deck.

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..... Emergency Supply, state position

Wheel hose. All officers & eng's rooms. Galley, Eng. room. Steering room. At windlass.

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..... **Yes**....., state battery capacity in ampere hours **24 v 60 A/H**..... Where required to do so does it comply with 1948 International Convention..... **Yes**.....

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 1, 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 Yes, 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

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..... Have motors of 100 BHP and over been inspected by the Surveyors during manufacture and testing.....

Have certificate of test for motor under 100 BHP intended for essential sea services been supplied and the results found as per Rule No. M-2272

*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.....

Insulation Tests, has the insulation resistance of all circuits and apparatus been tested and found satisfactory..... Yes

## PARTICULARS OF GENERATING PLANT.

| DESCRIPTION OF GENERATOR.          |   |               |    | No. of | MAKER. | RATED AT           |                   |                                     |                | PRIME MOVER. |        |
|------------------------------------|---|---------------|----|--------|--------|--------------------|-------------------|-------------------------------------|----------------|--------------|--------|
|                                    |   |               |    |        |        | Kw. per Generator. | Volts.            | Ampères.                            | Revs. per Min. | TYPE.        | MAKER. |
| MAIN                               | 1 | Hitachi Works | 10 | 115    | 86.9   | 600                | St. Recip. Engine | Ishii Kosakusho, Osaka.             |                |              |        |
|                                    | 1 | Hitachi Works | 5  | 115    | 43.5   | 650                | Main Shaft drive  | M. Eng. built by Innoshima Shipyard |                |              |        |
| Aux. <del>Rotary Transformer</del> |   |               |    |        |        |                    |                   |                                     |                |              |        |
| ROTARY TRANSFORMER                 |   |               |    |        |        |                    |                   |                                     |                |              |        |

## GENERATOR CABLES.

| DESCRIPTION.                          | No. of | Kw. | CONDUCTORS.                     |   | MAXIMUM CURRENT | APPROX.  | INSULA-<br>TION. | PROTECTIVE COVERING.       |
|---------------------------------------|--------|-----|---------------------------------|---|-----------------|--|------------------|----------------------------|
|                                       |        |     | No. in<br>Parallel<br>per Pole. | Sectional Area or<br>Sq. ins. or <del>24 x 24</del><br>Gauge. | IN AMPERES.     | LENGTH<br>Lead plus<br>return <del>20</del><br>ft. |                  |                            |
|                                       |        |     |                                 | In the<br>Circuit.  | Rule.           |  |                  |                            |
| MAIN GENERATOR ... ..                 | 1      | 10  | 1                               | 0.1   | 86.9 ✓ 118      | 25   | V.C.<br>V.R.     | Lead sheathed &<br>braided |
| " " EQUALISER ... ..                  |        |     |                                 |   |                 |  |                  |                            |
|                                       |        |     |                                 |   |                 |  |                  |                            |
|                                       |        |     |                                 |   |                 |  |                  |                            |
|                                       |        |     |                                 |   |                 |  |                  |                            |
|                                       |        |     |                                 |   |                 |  |                  |                            |
| <u>Aux.</u>                           | 1      | 5   | 1                               | 0.0225  | 43.5 ✓ 46       | 15   | V.R.             | Lead sheathed &<br>braided |
| <del>EMERGENCY</del> GENERATOR ... .. |        |     |                                 |   |                 |  |                  |                            |
| MOTARY TRANSFORMER: MOTOR             |        |     |                                 |   |                 |  |                  |                            |
| " " GENERATOR...                      |        |     |                                 |   |                 |  |                  |                            |

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

[illegible]

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

[illegible]

## MOTOR CABLES.

[illegible]

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.

J. Yuba

Electrical Contractors.

Date 27th June 1956

#### COMPASSES.

Have the compasses been adjusted under working conditions.

Yes

J. Yuba

Builder's Signature.

Date 27th June 1956

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

S.S. "KONDOR" S.No. 3756

Plans. Are approved plans forwarded herewith.

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If not, state date of approval

Kob. 13-10-55

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

YKA Cert.No. 2384

YKA Cert.No. M-2272

General Remarks. (State quality of workmanship and materials, opinions as to class, etc.)

The Electrical installation of this ship has been constructed under Special Survey in accordance with the Rules, Approved plans and Secretary's letters.

The material and workmanship are satisfactory.

The generators and motor etc. have been examined under full loading condition to Rules requirements and found satisfactory.

Total Capacity of Generators 15 Kilowatts.

The amount of Fee ...

£ 30,000

When applied for,

19

Travelling Expenses (if any) £

Sept. 1

When received,

19

Surveyor to Lloyd's Register of Shipping.

M. Lamakua

J. Yuba

FRIDAY 12 OCT 1956

Committee's Minute

Assigned

See Rpt. 4



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Foundation