

Rpt. 13

REPORT ON ELECTRICAL EQUIPMENT

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

No. FE-10175

Date of writing Report 5th June, 1962 When handed in at Local Office JUN 28 1962 Received at London Office

No. in Survey held at Aioi, Japan Port of KOBE Date, First Survey 20th Feb., 1962 Last Survey 21st May, 1962

Reg. Book on the Steel Single Screw m.s. "LENKORAN" (No. of Visits)

Built at Aioi, Japan By whom built Ishikawajima-Harima Heavy Ind. Ltd., Aioi Works Tons Gross 23,158.70 Net 14,574.52

Owners V/O "Sudoimport" Port belonging to Odessa Yard No. 592 When built May, 1962

Installation fitted by Ishikawajima-Harima Heavy Ind. Co., Ltd., Aioi Works

Is vessel equipped for carrying Petroleum in bulk Yes 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 Insulated

Heating 120 Power 120, 380 D.C. or A.C. Lighting A.C. Power A.C. If A.C. state frequency 50

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 Self regulating type, 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 Yes Have certificates of test for machines

under 100 kw. been supplied and the results found as per Rule Yes Position of Generators On lower floor portside in

engine room

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 On lower flat forward mid-ship

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

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 12

ammeters 8 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 Three lamps

with metallic filament and a 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 Utsunomiya "Cello-lite", are all fuses labelled Yes If circuit breakers are provided for the generators, at what

overload do they operate 125% - 20 seconds, and at what current do the reverse power protective

devices operate -15% - 10 seconds 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 7 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 V.L.C. R.L.C., galleys V.L.C. R.L.C.

and laundries R.L.C. State how the cables are supported or protected Generally fixed with metal

clips on steel hangers, saddles, trays, or directly on structural steel or wood work, and protected with

heavy gauge steel tubes or steel plates 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 -

NOTE:- V: Varnished cambric insulated.
L: Lead alloy sheathed.

R: Vulcanised rubber insulated.
C: Steel wire braided.

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Spare Gear, if the vessel is for open sea service have spares been provided as per Rule and suitably stored in dry situations..... Yes ☒

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

PARTICULARS OF GENERATING PLANT

NOTE:- M.S.B.: Main switchboard.
E.S.B.: Emergency switchboard.
All cables are of three core type except as specially noted.

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.

M. Yamane Electrical Contractors. Date.....

COMPASSES

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

M. Linami Builder's Signature. Date.....

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..... "LISICHANSK"

Plans. Are approved plans forwarded herewith..... No If not, state date of approval..... 9-8-61, 22-2-62, 27-2-62, 6-3-62

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 equipments installed in this ship were examined and tested in accordance with the requirements of the Society's Rules and the approved plans with satisfactory results.

The materials are good and sound.

The generator, motors, etc. were examined and tested under full working conditions and found to be satisfactory.

Total Capacity of Generators..... 920 Kilowatts.

The amount of Fee ... £236,800 When applied for, 19

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

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

FRIDAY - 3 AUG 1962

Committee's Minute.....

Assigned Sub Pt 1



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(The Surveyors are requested not to write on or below the space for Committee Minute.)

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16.7.62

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