

FOR LONDON

Rpt. 13.

No. FE835

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 14 FEB 1958

Date of writing Report 19... When handed in at Local Office 19... Port of Nagasaki (Shimonoseki)

No. in Survey held at Nagasaki, Japan Date, First Survey 15th Oct, 1957 Last Survey 7th Jan, 58
Reg. Book. (No. of Visits 48)

on the M.V. "KOBU MARU" Tons Gross 9,202 Net 5,345

Built at Nagasaki, Japan By whom built Mitsubishi Zosen K.K. Nagasaki Works Yard No. 1498 When built 1958-1

Owners Daido Kaiun K.K. Port belonging to Kobe

Installation fitted by Mitsubishi Zosen K.K., Nagasaki Works When fitted 1958-1

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. No Radar Yes

Plans, have they been submitted and approved Yes System of Distribution 3 Wire 3 Phase Voltage of Lighting 110

Heating 110 Power 440 D.C. or A.C., Lighting A.C. Power A.C. If A.C. state frequency 60 cycles

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 Yes Have certificates of test for machines

under 100 kw. been supplied and the results found as per Rule Yes Position of Generators Port Fw'd., Port Aft Inboard

and Port Aft Outboard on platform level in machinery space

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 at centre of fw'd. end

on platform level in machinery space

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 & bar 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 Triple pole linked air circuit breaker with

instantaneous overcurrent trip in each phase, overcurrent relay in each phase, performance

overcurrent relay for hold fan circuit, reverse power relay and triple pole linked isolating

switch fitted ventral insulated from earth Triple pole linked air circuit breaker

and the switch and fuse gear (or circuit breakers) for each outgoing circuit Breakers of De-ion type made by Mitsubishi

Electric Mfg. Co., Ltd., Tokyo.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule Yes Instruments on main switchboard 6

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 2 sets for

power and lighting circuits 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

Fuji Electric Mfg.Co.,Ltd. and make of fuses Utsumomiya Mfg.Co., are all fuses labelled Yes

If circuit breakers are provided for the generators, at what power

overload do they operate 150% (480A) 19 sec. and at what power do the reverse current protective-

devices operate 25 KW. 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 6.2 volts. Are all ~~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, 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 in conduit below galleys RLC & RHRC

and laundries RLC & RHRC platform Cables of metal braided secured

by metal clips on coated steel hangers or galvanized perforated steel plates. Cables in

cargo spaces protected by steel plating.

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 Yes and test certificates supplied Yes

Are the motors accessible for maintenance at all times 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.

_____ *also contractors* Electrical Contractors. Date _____

COMPASSES.

Have the compasses been adjusted under working conditions. Yes

S. Koga Builder's Signature. Date _____
NAGASAKI WORKS
MITSUBISHI SHIPBUILDING & ENGINEERING CO., LTD.

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 "KOSEI MARU", "KOHOH MARU"

Plans. Are approved plans forwarded herewith. No If not, state date of approval. 22nd June, 1957

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 and Installation of this ship have been made under special survey in accordance with the requirements of the Rules, the approved plans and the Secretary's letters.

All tests and trials as required by the Rules have been completed with satisfactory results.

Total Capacity of Generators. 750 K.V.A
Kilowatts.

The amount of Fee ... £1207,450 :
250KVA Generator x 3
Construction Fees £71,550
deducted. (Rendered 26/9/57)

When applied for, FEB - 5. 1958
LOCALLY
When received, 19

Travelling Expenses (if any) £ : 19

[Signature]
Surveyor to Lloyd's Register of Shipping.

Committee's Minute. TUESDAY 25 MAR 1958

Assigned. *See Rpt-1.*

5m, 65c - Transfer. (MADE AND PRINTED IN ENGLAND)
(The Surveyors are requested not to write on or below the space for Committee Minutes.)

17.2.58



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