

Rpt. 13.

No. FE 935

# REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office.

Date of writing Report 22nd Feb., 1959. When handed in at Local Office 3rd Mar., 1959. Port of SHIMONOS EKI.

No. in Survey held at Kudamatsu, Japan Date, First Survey 10-1-1959 Last Survey 8-2-1959  
Reg. Book. (No. of Visits 5) 3366.79Tons { Gross 3366.79  
Net 1871.70on the M.V. " NARRA "  
Built at Kudamatsu, Japan By whom built Kasado Dockyard Co., Yard No. 203 When built 2-1959  
Owners PHILIPPINE ACE LINES, INC. Port belonging to Manila  
Installation fitted by Kasado Dockyard Co., Ltd., Kudamatsu When fitted 2-1959

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 phase, 3 wire. Voltage of Lighting 115

Heating - Power 230 D.C. or A.C., Lighting A.C. Power A.C. If A.C. state frequency 60

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 No Have certificates of test for machines under 100 kw. been supplied and the results found as per Rule Yes Position of Generators Port &amp; Starboard on main engine starting 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 at forward and on main engine starting 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 Phenolic Resin Bonded &amp; ebonite, 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 an instantaneous overcurrent trip in each phase, overcurrent relays in two phases, a reverse power relay and a triple pole linked isolating switch fitted, neutral insulated from earth.

and the switch and fuse gear (or circuit breakers) for each outgoing circuit A triple pole linked air circuit breaker with an over current trip on each insulated pole fitted. Breaker of "De-ion" type made by Terasaki Denki Seisakusho, Osaka

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule Yes Instruments on main switchboard 2

A.C. ammeters 2 voltmeters 1 synchronising devices. For compound machines in parallel are the ammeters and reverse current 2 wattmeters 2 DC ammeters 2 voltmeters protection devices connected on the pole opposite to the equaliser connection - Earth Testing, state means provided 2 sets 10 Watt filament lamps for power &amp; lighting 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 Kawasaki-SK type, are all fuses labelled Yes If circuit breakers are provided for the generators, at what

overload do they operate 150% (339A) 20 sec. and at what current do the reverse current protective-

devices operate 13% (29.4A) 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 5 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 TVLC, in conduit, galleys RLC

and laundries RLC State how the cables are supported or protected Cables of metal braided,

armoured, secured by metal clip on coated steel hangers or galvanized perforated steel

plates. Cables under upper deck covered by steel plate, ESD cable in hold protected by

heavy gauged steel pipe.

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 Domestic - and test certificates supplied -

Are the motors accessible for maintenance at all times Yes



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Foundation



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.

D. Taira Electrical Contractors. Date 1st March, 1959.  
KASADO DOCKYARD CO., LTD.  
Kasado-Shima, Kudamatsu City,  
Yamaguchi Pref. Japan

COMPASSES.

Have the compasses been adjusted under working conditions. Yes

A. Matsumura Builder's Signature. Date 1st March, 1959.  
KASADO DOCKYARD CO., LTD.  
Kasado-Shima, Kudamatsu City,  
Yamaguchi Pref. Japan

Have the foregoing descriptions and schedules been verified and found correct. Yes

Is this installation a duplicate of a previous case. No If so, state name of vessel. -  
Plans. Are approved plans forwarded herewith. No If not, state date of approval. 1958: Aug. 12, Oct. 18, Nov. 18, Dec. 18.  
1959: Jan. 13.

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 and installation of this ship have been made under Special  
Survey in accordance with the Rules, approved plans and the Secretary's letters.  
The materials and workmanship are good.  
All tests and trials required by the Rules have been completed with satisfactory results.

Total Capacity of Generators. 180 K.V.A. ~~KW~~

The amount of Fee ... £ ¥138,000 :  
\*Less 21,150  
Actual Fee ¥116,850

When applied for,  
16. APR. 1959

When received,  
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Travelling Expenses (if any) See Rpt. 4b.  
No. FE935

\* 2 sets of Generator Construction Fees  
Rendered by Yokohama 14/11/58

FRIDAY 22 MAY 1959

Committee's Minute

Assigned

See Rpt. 1

G. H. Kerney a. Matsumura  
Surveyor to Lloyd's Register of Shipping.