

REPORT ON ELECTRICAL EQUIPMENT.

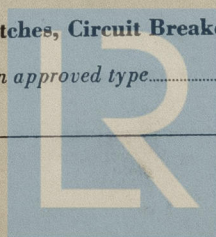
(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

12 AUG 1950

Date of writing Report 28/7/1950 When handed in at Local Office 28/7/1950 Port of Yokohama
 No. in Survey held at Yokohama Date, First Survey 14th April Last Survey 12th May 1950
 Reg. Book. 985 in supplement on the S.S. "Fuji Maru" Tons { Gross 3629
 Net 1995
 Built at Nippon Steel Tube Co. By whom built Tsurumi Shipyard Yard No. 651 When built 7-1949
 Owners Nippon Yusosen K.K. Port belonging to Tokyo
 Electric Light Installation fitted by Tsurumi Shipyard Contract No. When fitted 7-1949
 Is the Vessel fitted for carrying Petroleum in bulk No

System of Distribution Two -wire with direct current
 Pressure of supply for Lighting 100 volts, Heating volts, Power 100 volts,
 Direct or Alternating Current, Lighting Direct current Power Direct current
 If alternating current system, state frequency of periods per second
 Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off Yes
 Generators, do they comply with the requirements regarding temperature rise Yes, are they compound wound Yes
 are they over compounded 5 per cent. Flat compound, if not compound wound state distance between each generator
 Where more than one generator is fitted are they arranged to run in parallel No, is an adjustable regulating resistance fitted in
 series with each shunt field Yes Have certificates of test results for machines under 100 kw. been submitted and
 approved Yes Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing
 Are all terminals accessible, clearly marked, and furnished with sockets Yes, are they so spaced or shielded that they cannot be accidentally earthed,
 short circuited, or touched Yes Are the lubricating arrangements of the generators as per Rule Yes
 Position of Generators On the engine room floor (Starboard), is the ventilation
 in way of the generators satisfactory Yes are they clear of all inflammable material Yes if situated near unprotected
 woodwork or other combustible material, state distance of same horizontally from or vertically above the generators and
 are the generators protected from mechanical injury and damage from water, steam or oil Yes, are their axes of rotation fore and aft Yes
 Earthing, are the bedplates and frames of the generating plant efficiently earthed Yes are the prime movers and their respective generators
 in metallic contact Yes Main Switch Boards, where placed Starboard side in the engine room (near the
generator) If the generators and main switchboard are not placed in the same compartment, is each generator provided with
 a fuse on each insulated pole as near as possible to the terminals of the generator, additional to that provided on the main switchboard
 Switchboards, are they placed in accessible positions, free from inflammable gases and acid fumes Yes, are they protected from mechanical
 injury and damage from water, steam or oil Yes, if situated near unprotected woodwork or other combustible material, state distance of same
 horizontally from or vertically above the switchboards and are they constructed wholly of durable, non-ignitable non-absorbent
 materials Yes, is all insulation of high dielectric strength and of permanently high insulation resistance Yes
 is it of an approved type Yes, if semi-insulating material is used, are all conducting parts insulated from the slab with mica or micanite or other
 non-hygroscopic insulating material, and the slab similarly insulated from its framework Yes is the non-hygroscopic insulating material of an approved
 type Yes, and is the frame effectively earthed Yes Are the fittings as per Rule regarding:—spacing or shielding of live parts
Yes, accessibility of all parts Yes, absence of fuses on back of board Yes, temperature rise of
 omnibus bars Yes, individual fuses to voltmeter, pilot or earth lamp Yes, are moving parts of switches alive in the
 "off" position No are all screws and nuts securing connections effectively locked Yes are any fuses fitted on the live side of
 switches No Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches
2p 400A, ACBx2, 2p-DT-KS 400Ax2, 200Ax1, 2p-ST-KS 300Ax1, 200Ax1 120Ax1 60Ax7 30Ax18 and
No Eg. Switch.
 Are turbine driven generators fitted with emergency trip switch as per rule No Are cupboards or compartments containing switchboards composed of
 fire-resisting material or lined with approved material Yes Instruments on main switchboard 3 ammeters 2 volt-
 meters No synchronizing device for paralleling purposes. For compound machines is the ammeter connected on the opposite pole to equalizer connection
positive pole Earth Testing, state what means are provided at the main switchboard for indicating the state of the insulation of the system
Two earth lamps of the metal-filament type are provided Switches, Circuit Breakers and Fusible Cut-outs,
 do these comply with the requirements of the Rules Yes are the fusible cutouts of an approved type Yes have the reversed



Lloyd's Register
Foundation

010037-010045-0174 1/2

DESCRIPTION.	No. of Motors.	CONDUCTORS.		COMPOSITION OF STRAND.		TOTAL MAXIMUM CURRENT, AMPERES.		Approximate Length, (Lead and Return.) Feet.	Insulated with	HOW PROTECTED
		No. per Pole.	Total Nominal Area per Pole Sq. Ins.	No.	Diameter.	In Circuit.	Bule at 45°C			
ALLAST PUMP										
AIN BILGE LINE PUMPS ...										
GENERAL SERVICE PUMP ...										
EMERGENCY BILGE PUMP ...										
ENITARY PUMP										
RC. SEA WATER PUMPS ...										
RC. FRESH WATER PUMPS ...										
R COMPRESSOR										
RESH WATER PUMP										
GINE TURNING GEAR	1	1	15.08	30	0.8 ✓	46	65	130	Vulcanized rubber	Lead & Steel armored
GINE REVERSING GEAR ...										
BRICATING OIL PUMPS ...										
L FUEL TRANSFER PUMP ...										
INDLASS										
INCHES, FORWARD										
lubricating Oil purifier	1	1	6.032	12	0.8 ✓	20	37	60	"	"
INCHES, AFT										
TEERING GEAR—										
(a) MOTOR GENERATOR ...										
(b) MAIN MOTOR	1	1	50.90	80	0.9 ✓	67	145	540	"	"
ORKSHOP MOTOR	2	1	6.032	12	0.8 ✓	10	37	130	"	"
ENTILATING FANS	2	1	6.032	30	0.8 ✓	44	65	570	"	"
argo Oil Pump	1	1	68.99	61	1.2 ✓	133	180	60	"	"
rigerating Compressor	1	1	15.08	30	0.8 ✓	44	65	127	"	"
do. cooling water	1	1	3.519	7	0.8 ✓	10	26	60	"	"

All Conductors are of annealed copper conforming to British Standard Specification No. 7 (or International Electro-technical Commission Publication No. 28).

The Insulated Conductors are guaranteed to withstand the immersion and resistance tests specified in the Rules.

The foregoing is a correct description.

Electrical Engineers.

Date

COMPASSES.

Distance between electric generators or motors and standard compass 100 feet from generators, 45 feet from motor generators.
Distance between electric generators or motors and steering compass 95 feet from generators, 42 feet from motor generators.

The nearest cables to the compasses are as follows:—

A cable carrying 25 Ampères — feet from standard compass 13 feet from steering compass.

A cable carrying 44 Ampères — feet from standard compass 16 feet from steering compass.

A cable carrying 50 Ampères 23 feet from standard compass feet from steering compass.

Have the compasses been adjusted with and without the electric installation at work at full power Yes

Has the effect of switching on and off circuits, motors and other electro-magnetic apparatus within the vicinity of the compasses been noted No

The maximum deviation due to electric currents was found to be degrees on course in the case of the standard compass, and degrees on course in the case of the steering compass.

Builder's Signature.

Date

Is this installation a duplicate of a previous case No If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c. This vessel was built in 1949 and is now submitted for classification with this Society in accordance with the Rules for vessels not built under Survey, the electrical equipment has been examined and tested in accordance with the Rules and found to comply with approved plans.

There is no alternative means of supply to the navigation lights provided and the Owners request that this modification be deferred until November 1950 merits the favourable consideration of the Committee.

Noted and 16/9/50

Total Capacity of Generators 80 Kilowatts.

The amount of Fee ... £Y 40;320 :
Traveling Expenses (if any) £Y 2;000 :

When applied for,

19

When received,

19

Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 10 NOV 1950

Assigned See P.E. mchey. rpt

Im-5-44—Transfer. Printed in U.S.A.
(The Surveyors are requested not to write on or below the space for Committee's Minute)



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