

23 FEB 1960

Rpt. 13.

No. FE-1053

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report 14th Dec. 1959 When handed in at Local Office 19 Port of Nagasaki
 No. in Survey held at Sasebo, Japan Date, First Survey 14-10-59 Last Survey 5-12-59
 Reg. Book. S.S. "ORIENTAL GIANT" (No. of Visits 12)
 on the S.S. "ORIENTAL GIANT" Tons {Gross 43,422
 Net 29,739
 Built at Sasebo, Japan By whom built Sasebo Ship Industry Co. Ltd. Yard No. 200 When built Dec. 1959
 Owners Tanker Service Inc., Liberia Port belonging to Monrovia
 Installation fitted by Sasebo Ship Industry Co., Ltd., Sasebo Dock Yard When fitted Dec. 1959
 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. Yes Radar Yes

Plans, have they been submitted and approved Yes System of Distribution three phase three Voltage of Lighting 115 Volts

Heating 220 Volts Power 440 Volts 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 No Generators, are they compound wound No, 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 Yes 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 main generators: Starboard

lower flat in ER, fore & aft; Emergency generator: starboard upper flat in ER.

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 forward lower flat
 in ER.

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, 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 for main switchboard:- a triple-pole linked circuit-

breaker with overcurrent trip in two phase and with reverse power relay; for emergency

switchboard:- a triple-pole linked circuit-breaker with overcurrent trip in two phase.

and the switch and fuse gear (or circuit breakers) for each outgoing circuit a triple-pole linked circuit-breaker
 (molded case thermal trip type)

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

ammeters 6 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 - Preference Tripping, state if provided No, and tested -

Switches, Circuit Breakers, and Fuses, are they as per Rule Yes, are the fuses an Approved Type Yes

make of fuses Utsunomiya, cellolite, are all fuses labelled Yes If circuit breakers are provided for the generators, at what

overload do they operate 2100 amp 20 sec. 6000 amp inst., and at what current do the reverse current protective-

devices operate 46 kilo-watt Cables, are they insulated and protected as per Rule -

if otherwise than as per Rule are they of an Approved Type Yes, state maximum fall of pressure between bus bars and any point

under maximum load 10.93 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 * V1 or R1, galleys * V1 or R1

and laundries * R1 State how the cables are supported or protected supported on the steel hanger

and clipped by brass cable band, protected by steel duct, conduit and steel plate 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 Yes

Have refrigeration fan motors been constructed under survey - and test certificates supplied -

Are the motors accessible for maintenance at all times Yes

* V1: varnished cambric insulated, impervious sheathed and steel armoured (braided)
 R1: rubber insulated, impervious sheathed and steel armoured (braided)

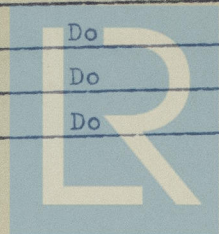
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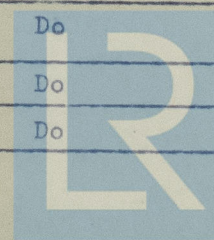
Description	No. in para. per pole	Maximum current in Amp			Rule	Appro. length	Insulat- ion	Protective covering
		Sectional area	In the circuit					
Lighting distribution box "LD-10"	1	X10 ³	C.M. 20	29	44	16.5	Rubber	Steel wire
Ditto "LD-11"	1	Do	33	28.5	70	79.2	Varnished cambric	Ditto
Ditto "ELD- 1"	1	Do	16	29	39	92.4	Rubber	Ditto
Ditto "ELD- 2"	1	Do	16	20.8	39	36.3	Do	Ditto
Ditto "ELD- 3"	1	Do	20	28.6	44	46.2	Do	Ditto
Ditto "ELD- 4"	1	Do	20	19	44	33	Do	Ditto
Ditto "ELD- 5"	1	Do	20	35.8	44	49.5	Do	Ditto
I.C. distribution box "CD- 1"	1	Do	16	9	39	92.4	Do	Ditto
Ditto "CD- 2"	1	Do	20	37.6	44	42.9	Do	Ditto
Ditto "CD- 3"	1	Do	26	12	49	132	Do	Ditto
Navigation lights indicator	1	Do	20	1.56	49		Do	Bronze wire



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ALL IMPORTANT MOTORS ENUMERATED	NO. B.H.P.		No. in para. per pole	Sectional area	Maximum current in Amp		Appro. length	Insulat- ion	Protective covering
					In the circuit	Rule			
Grinder	1	1	1	Do 4	1.8	✓ 13	23	Rubber	Steel wire
Ref. machine for air conditioner	1	60	1	Do 66	75	✓ 106	132	Varnished cambric	Ditto
Ditto	1	30	1	Do 33	39	✓ 57	66	Rubber	Ditto
Thermotank fan for cir. cond.	3	15/4.4	1	Do 10	20	✓ 29	No.1: 33 No.2: 49 No.3: 49	Do	Ditto
Cooling water P. for air cond.	1	20	1	Do 16	26	✓ 39	69	Do	Ditto
Galley and store vent. fan	2	3	1	Do 4	4.5	✓ 13	Sup. 132 Exh. 132	Do	Ditto
Galley burner fan	2	1	1	4	3.5	✓ 13	No.1: 76 No.2: 82	Do	Ditto
Electric mixer	1	1	1	Do 4	3.5	✓ 13	73	Do	Ditto
Potato peeler	1	1/2	1	Do 4	2	✓ 13	53	Do	Ditto



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

DESCRIPTION.		CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead to load in feet).	INSULATION.	PROTECTIVE COVERING.
		No. in Parallel per Pole.	Sectional Area of Strands.	In the Circuit.	Rule.			
Power Distribution Box	"PD-1"	1	x10 ³ 33	49.8	70	39.6	V	Steel Wire
ditto	"PD-2"	1	" 66	88.0	106	89	V	ditto
ditto	"PD-3"	1	" 133	136.4	163	79	V	ditto
ditto	"PD-4"	1	" 66	80.8	106	86	V	ditto
ditto	"PD-5"	1	" 66	88.3	106	109	V	ditto
ditto	"PD-6"	1	" 66	71.1	106	109	V	ditto
ditto	"PD-7"	1	" 106	115.7	142	241	V	ditto
ditto	"PD-8"	1	" 41	29.8	80	33	V	ditto
ditto	"EPD-1"	1	" 33	49.8	70	39.6	V	ditto
ditto	"EPD-2"	1	" 66	98.7	106	89	V	ditto
ditto	"EPD-3"	1	" 66	83.8	106	79	V	ditto
ditto	"EPD-4"	1	" 66	81.0	106	86	V	ditto
Heating Distrubution Box	"SPD-1"	1	" 33	45.2	57	49.5	R	ditto
ditto	"SPD-2"	1	" 106	30.9	142	241	V	ditto
ditto	"SPD-3"	1	" 106	30.2	142	53	V	ditto
ditto	"SPD-4"	1	" 16	22.6	39	39.6	R	ditto
Lighting Section Box	"LS-1"	1	" 168	150	187	73	V	ditto
ditto	"LS-2"	1	" 66	96.5	106	59.4	V	ditto
ditto	"ELS-1"	1	" 41	44	80	82.5	V	ditto
Lighting Distribution Box	"LD-1"	1	" 20	24.4	44	92.5	R	ditto
ditto	"LD-2"	1	" 10	15.7	29	62.7	R	ditto
ditto	"LD-3"	1	" 20	28	44	59.4	R	ditto
ditto	"LD-4"	1	" 52	17.8	92	304	V	Bronze Wire
ditto	"LD-5"	1	" 26	32	49	46.2	R	ditto
ditto	"LD-6"	1	" 26	29.4	49	62.7	R	ditto
ditto	"LD-7"	1	" 33	33.6	57	79.2	R	ditto
ditto	"LD-8"	1	" 41	33	66	95.7	R	ditto
ditto	"LD-9"	1	" 16	27.7	39	42.9	R	ditto

MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.						
Main Circulating Pump	2	135/70	2	83	180/105	244	72.2	V Steel Wire
Aux. Circulating Pump	2	25	1	20	32	44	138.0	R ditto
ditto	1	50	1	41	62	80	113.0	V ditto
Main condensate pump	2	45	1	33	52	70	72.3	V ditto
Aux. condensate pump	2	15	1	10	20	29	59.0	V ditto
Lubricating oil pump	2	45	1	33	53.8	70	62.4	R ditto
Forced draft fan	2	200/90	2	133	232/120	326	95.0	V ditto
Fuel oil service pump	2	20/10	1	16	26/14	61	124.6	V ditto
Cold start fuel oil service pump	1	1.5	1	6	2	23	78.8	R ditto
Aux. feed pump	1	15	1	10	19	29	200.0	V ditto
Atmospheric drain pump	2	25	1	20	30.5	44	174.0	V ditto
Fire and bilge pump	1	60	1	66	75	106	79.0	R ditto
Bilge pump	1	3	1	4	4.2	13	79.0	R ditto
Sanitary pump	2	7.5	1	6	11	21	89.0	R ditto
Fresh water pump	2	4	1	4	5.5	13	164.0	R ditto
Air compressor for ship Ser-vice	2	40	1	33	52	70	161.0	R ditto
Air compressor for A.C.C.	2	15	1	10	20	29	89.0	V ditto
Lub oil purifier	2	3.5	1	4	5.5	12	157.0	R ditto
Sea water service pump	2	7.5	1	6	11	21	167.5	R ditto
Evaporator distilling pump	2	2	1	4	2.65	13	187.0	R ditto
Evaporator brine pump	2	2	1	4	2.65	13	27.0	R ditto
Gland exhaust fan	1	1	1	4	1.8	13	89.0	R ditto
Engine room vent. fan	4	6	1	6	9	21	103.0	R ditto
Boiler room vent. fan	2	6	1	6	9	21	92.0	R ditto
ditto	2	7.5	1	6	11	23	95.0	V ditto
Steering Gear	2	85	1	168	140	187	69.0	V ditto
Pump room vent. fan	1	10	1	6	14	21	108	R ditto
Ref. Machine (provision)	2	10/5	1	20	14/7.5	44	223.207	R ditto
Ref. cooling water pump	2	2	1	4	3.5	13	190.213	R ditto
Hot fresh water cir. pump	2	1	1	4	1.45	13	302.0	R ditto
Fresh water pump for midship	1	3	1	4	4.0	13	246.0	R ditto
DRINKING WATER PUMP FOR AFTER GENERATOR.	1	3	1	4	7.5	13	230.0	R ditto
COOLING WATER PUMP FOR EMERGENCY GENERATOR	1	3	1	4	7.5	13	254.0	R ditto
Turning gear	1	15/7.5	1	16	29/26	39	295.0	R ditto
Universal machine	1	5	1	4	6.4	13	360.0	R ditto
Drilling machine	1	3	1	4	3.8	13	194.0	R ditto

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.

for M. Nagata
General Manager

Sasebo Ship Industry Co., Ltd.

Electrical Contractors.

Date December, 1959

COMPASSES.

Have the compasses been adjusted under working conditions Yes

for M. Nagata
General Manager

Sasebo Ship Industry Co., Ltd.

Builder's Signature.

Date December, 1959

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 July 11, Aug. 3, 10, 18, Sep. 11, 16, 23.

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 installation fitted in this vessel has been installed under supervision of the surveyors in accordance with the approved plans and the Society's letters & tested on board under working condition and found satisfactory. The workmanship is good.

Total Capacity of Generators ~~1,840~~ 2,088 Kilowatts.

The amount of Fee ... £ : : When applied for, 19
£ 306,300 }
When received, 19
Travelling Expenses (if any) £ : : 19

Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRIDAY 25 MAR 1960

Assigned

See Rpt. 1.



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