

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

Date of writing Report 20 - 9 - 1960 When handed in at Local Office 19 Port of Shimonoseki

No. in Survey held at Hiroshima, Japan Date, First Survey 1st May, Last Survey 13 Aug 1960.

Reg. Book. (No. of Visits 7) Tons Gross 999.37 Net 502.78

on the M.V. "AUNG TEZA" When built Aug. 1960

Built at Hiroshima, Japan By whom built Ujina Shipbuilding Co. Ltd. Yard No. Rangoon, Burma

Owners Union of Burma Shipping Board Port belonging to

Installation fitted by Ujina Shipbuilding Co. Ltd., Hiroshima, Japan When fitted Aug. 1960

Is vessel equipped for carrying Petroleum in bulk No Is vessel equipped with D.F. Yes E.S.D. Yes Gy.C. No Sub.Sig. No Radar Yes

Plans, have they been submitted and approved Yes System of Distribution 2 phase 2 wire insulated Voltage of Lighting 220 V.

Heating - Power 200 V. D.C. or A.C., Lighting D.C. Power D.C. If A.C. state frequency -

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 Yes, and level compounded under working conditions Yes

Are the generators arranged to run in parallel Yes Is the compound winding connected to the negative or positive pole negative

Have machines 100 kw. and over been inspected by the Surveyors during manufacture and testing None Have certificates of test for machines under 100 kw. been supplied and the results found as per Rule Yes Position of Generators on the floor of E.R.

One on the starboard side and one on the port side.

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 the Stab'd forward of Engine room 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 Bakelite, 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 Both pole linked air circuit breaker with an instantaneous over current trip, and reverse current trip breaker fitted to main switch board.

and the switch and fuse gear (or circuit breakers) for each outgoing circuit Both pole linked exposed knife switch with T.H. fuse

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

ammeters 2 voltmeters - synchronising devices. For compound machines in parallel are the ammeters and reverse current protection devices connected on the pole opposite to the equaliser connection. Yes Earth Testing, state means provided 1 set of earth lamp Preference Tripping, state if provided None, and tested -

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

make of fuses Hitachi Type, are all fuses labelled Yes If circuit breakers are provided for the generators, at what overload do they operate 125% (111.2A) 15 sec., and at what current do the reverse current protective devices operate 225V-10A 5 sec. 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 - volts. Are all paper insulated and varnished cambric insulated cables sealed at the ends -

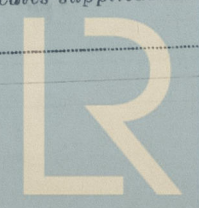
Are all the cable runs in accessible positions not exposed to drip or accumulation of water or oil, high temperatures or risk of mechanical damage Yes, are any cables laid under machines or floorplates No, if so, are they adequately protected - State type of cables (if in conduit this should also be stated) in machinery spaces R.C.L., galleys R.C.L.

and laundries - State how the cables are supported or protected. It is support by steel galvanized hangers and portionally protected by steel cover.

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 - Refrigerated chambers, are the cables and fittings as per Rule Yes

Have refrigeration fan motors been constructed under survey None and test certificates supplied

Are the motors accessible for maintenance at all times Yes



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Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule. Yes Emergency Supply, state position In aft steering engine room port side.

Navigation Lamps, are they separately wired. Yes controlled by separate double pole switches and fuses. Yes Are the switches and fuses in a position accessible only to the officers on watch. Yes is an automatic indicator fitted. Yes Is an alternative supply provided. Yes

Secondary Batteries, are they constructed, fitted and adequately ventilated as per Rule. Yes, state battery capacity in ampere hours. 24V. 80 A.H. Where required to do so does it comply with 1948 International Convention. Yes

Lighting, is fluorescent lighting fitted. No If so, state nominal lamp voltage. and compartments where lamps are fitted.

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, weatherproof. Yes

Searchlights, No. of 3, whether fixed or portable. fixed, are they of the carbon arc or of the filament type. filament type

Heating and Cooking, is the general construction as per Rule. None, are the frames effectually earthed. are heaters in the accommodation of the convection type. Motors, are all motors constructed and installed as per Rule and placed in well-ventilated

compartments in which inflammable gases cannot accumulate and protected from damage from water, steam and oil. Yes

Are motors coupled to oil fuel transfer and pressure pumps capable of being stopped from a position accessible in the event of fire in the pump compartment. Yes Have motors of 100 BHP and over been inspected by the Surveyors during manufacture and testing. None

Have certificates of test for motors under 100 BHP intended for essential sea services been supplied and the results found as per Rule. Yes

Lightning Conductors, where required are they fitted as per Rule.

Ships carrying Oil having a Flash Point of less than 150° F. Have all the special requirements of the Rules for such ships been complied with. are all fuses of an Approved Cartridge Type. make of fuse. Are the fittings for pump

rooms, 'tween deck spaces, etc., in accordance with the special requirements for such ships. Are all cables lead covered as per Rule.

E.S.D., if fitted state maker. Nihon Misen location of transmitter and receiver. Fr. No. 60-61 D.B. Stbd side of center keel.

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.

DESCRIPTION OF GENERATOR.	No. of	MAKER.	RATED AT				PRIME MOVER.	
			Kw. per Generator.	Volts.	Ampères.	Revs. per Min.	TYPE.	MAKER.
MAIN	2	TAIYO ELECTRIC CO. LTD.	20	225	89	900	3 LDL	YANMAR DIESEL ENG. CO. LTD.
EMERGENCY ROTARY TRANSFORMER	1	TAIYO ELECTRIC CO. LTD.	9	225	40	900	1 LDL	YANMAR DIESEL ENG. CO. LTD.

GENERATOR CABLES.

DESCRIPTION.	No. of	Kw.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
			No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.			
MAIN GENERATOR	2	20	2 (1G)	37/.072	89	110	NO. 165	R	L-SRLC
EQUALISER									
EMERGENCY GENERATOR	1	9	2 (1G)	19/.052	40	46	15'	R	L-SRLC
ROTARY TRANSFORMER MOTOR									
GENERATOR									

MAIN DISTRIBUTION CABLES (to Auxiliary Switchboards, etc.).

DESCRIPTION.	No. of	Kw.	CONDUCTORS.	MAXIMUM CURRENT IN AMPERES.	APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
M.S.B. TO SHORE CONNECTION BOX(S-S)	2 (1G)	37/.072	100	110	30'	R	L-SRLC

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

DESCRIPTION.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
	No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.			
M.S.B. TO EMERGENCY SWITCH BOARD	2 (1G)	7/.064	31	33	115'	R	L-SRLC
" NAVIGATION LIGHT PANEL	1 (2G)	3/.036	0.9	7	90'	R	" "
" SECTION S.BOX UPPER DECK MAINDR(S-1)	2 (1G)	19/.052	42.6	46	30'	R	" "
" DISTRIBUTION F.BOX E.R.	1 (2G)	3/.036	41	7	9'	R	" "
E.S.B. TO EMERGENCY SECTION S.B. ES-2	1 (2G)	7/.044	13.5	22	110'	R	" "
" STEERING ENGINE RM LAMP	1 (2G)	3/.036	0.2	7	15'	R	" "
M.S.B. TO COMMUNICATION S.B.	2 (1G)	7/.064	23	33	90'	R	" "

MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED.		No.	B.H.P.	MOTOR CABLE.					
M.S.B. TO WINDLASS MOTOR	1	20	2 (1C)	19/.083	80	85	110'	R	L-SRLC
" " WINCH	2	20	2 (1C)	19/.083	80	85	110' No. 2: 75'	R	"
" " CAISTAN	1	7.5	2 (1C)	7/.064	31	33	105'	R	"
" " BILGE PUMP	1	7.5	2 (1C)	7/.64	31	33	25'	R	"
" " FIRE PUMP	1	10	2 (1C)	19/.052	40	46	37'	R	"
" " FRESH WATER PUMP	1	5	2 (1C)	7/0.44	21	22	33'	R	"
" " SANITARY PUMP	1	1	1 (2C)	3/.036	4.6	7	80'	R	L-BRLC
" " SEA WATER PUMP	1	1	1 (2C)	3/.036	4.6	7	30'	R	"
" " L.O. PUMP	1	2	1 (2C)	7/.029	8.5	11	65'	R	"
" " F.O. PUMP	1	2	1 (2C)	7/.029	8.5	11	65'	R	"
" " BLOWER MOTOR NO.1	1	3	1 (2C)	7/.044	12.5	22	65'	R	"
" " BLOWER MOTOR NO.2	1	2	1 (2C)	7/.029	8.7	11	65'	R	"
" " REFRIGERATOR	1	5	1 (2C)	7/.044	21	22	33'	R	"

NOTE.—Use Rpt. 43 Continuation Sheet if the above space is insufficient.

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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.

E. Suguchi
Ujina Shipbuilding Co., Ltd.

Electrical Contractors.

Date 12th Oct. 1960

COMPASSES.

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

S. Ikehara
Director, Ujina Shipbuilding Co., Ltd.

Builder's Signature.

Date 12th Oct. 1960

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..... 25-5-60

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 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..... 49 Kilowatts.

The amount of Fee ... £63,000 : When applied for, 19

Travelling Expenses (if any) ... See Rpt. 4b No. FE 1645 : When received, 19

K. Okada
Surveyor to Lloyd's Register of Shipping.

Committee's Minute..... FRIDAY 10 FEB 1961

Assigned..... See Rpt. 1.



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