

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

12 JAN 1949

Date of writing Report 25th Oct., 1948 When handed in at Local Office 25th Oct., 1948 Port of Galveston, Texas
 No. in Survey held at Galveston, Texas Date, First Survey 6/15/48 Last Survey 8/20/ 19 48
 Reg. Book. (No. of Visits 6)

90696 on the M/V "JOBURE" (ex LST 1061)
 Converted at

Galveston, Texas By whom Todd Shipyards Corp. Yard No. When built 1948

Owners The Texas Company Port belonging to Guirra

Installation fitted by Todd Shipyards Corporation

From 4/20/48
 When fitted to 8/21/48

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

Plans, have they been submitted and approved Yes System of Distribution 120/240 D.C. Voltage of Lighting 120 VDC

Heating 240 VDC Power 240 volts 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 Stabilized Shunt, and level compounded under working conditions Yes

if not compound wound state distance between generators 6'-0" and from switchboard 6'-0" Are the generators arranged to run in parallel Yes, are shunt field regulators provided Yes Is the compound winding connected to the negative or positive pole Centers

Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing No Have certificates of test for machines under 100 kw. been supplied No and the results found as per Rule

Position of Generators On Generator Flat Second Deck

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 Generator Flat Second Deck

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 Ebony Asbestos, 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 I.T.E. 400A 3 Pole Circuit Breakers fitted with reverse current and overload trips on generator - no equalizers.

and the switch and fuse gear (or circuit breakers) for each outgoing circuit Distribution knife switches are double pole except those feeding lighting panels which are 3 pole, shore power and stern anchor winch are on circuit breakers.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule Yes Instruments on main switchboard 7 ammeters 3 voltmeters - synchronising devices. For compound machines in parallel are the ammeters and reversed current protection devices connected on the pole opposite to the equaliser connection - Earth Testing, state means provided None

Switches, Circuit Breakers and Fuses, are they as per Rule AIEE Standards, are the fuses an Approved Type AIEE Standards, make of fuses -, are all fuses labelled Yes If circuit breakers are provided for the generators, at what overload do they operate 5%, and at what current do the reversed current protective devices operate 24 (8.34 Amps.)

Joint Boxes, Section Boards and Distribution Boards, is the construction as per Rule Yes

Cables, are they insulated and protected as per Rule Yes, if otherwise than as per Rule are they of an Approved Type A.I.E.E. 86 U.S. Navy Standards

state maximum fall of pressure between bus bars and any point under maximum load 4 volts, are the ends of all cables having a sectional area of 0.01 square inch and above provided with soldering sockets Yes 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 Are cables in machinery spaces, galleys, laundries, etc., lead covered H.F.A. Navy Cable Exposed. or run in conduit

or of the "HR" type - State how the cables are supported or protected Supported with cable straps 14" apart in horizontal runs and 18" apart in vertical runs - and on decks on strongly constructed cable run-ways.

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

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Insulation Tests, has the insulation resistance of all circuits and apparatus been tested and found satisfactory.....Yes.....

DESCRIPTION OF GENERATOR.	No. of	MAKER.	RATED AT				PRIME MOVER.	
			Kilowatts per Generator.	Volts.	Ampères.	Revs. per Min.	TYPE.	MAKER.
MAIN	3	Delco Products Div. General Motors	100	120/240	417	1200	Diesel	The National Supply Co.
EMERGENCY ...								
ROTARY								
TRANSFORMER								

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.	APPROX. LENGTH (lead plus return feet).	INSULA- TION.	PROTECTIVE COVERING.
		No. in Parallel per Pole.	Sectional Area of Cable or Strand in Sq. ins. or Sq. mm.				
MAIN GENERATOR ... each	100	1	521.6	417	565	50	HFA
EQUALISER ...	None						Basket Weave Armoured
EMERGENCY GENERATOR ...	None						
ROTARY TRANSFORMER: MOTOR							
GENERATOR...							

[illegible]

DESCRIPTION.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (feet plus return loss).	INSULATION.	PROTECTIVE COVERING.
	No. in Parallel per Pole.	Sectional Area of Conductors (CM Sq. In. or MCM)	In the Circuit.	After Allowance.			
Water Heater Aft	1	9.0	25	✓ 30	120	DHFA	Basket Weave
Diesel Battery Charging Panel	1	9.0	10	✓ 30	50	"	" Armoured
Generator Alarm Panel	1	4.1	5	✓ 11.5	50	RL	LC & " "
Galley Steam Table	1	14.3	20	✓ 41	150	DHFA	" "
Navigation Lights Panel	1	9.0	30	✓ 30	200	"	" "
Lighting Panel Fwd.	1	10.4	30	✓ 30	500	VC	LC & " "
Generator Space Lighting	1	9.0	30	✓ 30	30	THFA	" "
Propulsion Engine Controls	1	4.4	10	✓ 15	80	DHFA	" "
Lighting Panel 2nd Deck	1	75.7	60	✓ 117	100	THFA	" "
Lighting Panel Accommodation	1	49.0	40	✓ 88	120	"	" "
Lighting Panel Wheel House	1	26.3	50	✓ 55.5	160	VC	LC & " "
P. & S. Main Deck Quarters Light Panels	1	38.9	60	✓ 75	80	THFA	" "
Radio Feed	1	26.3	50	✓ 55.5	180	VC	LC & " "
Engine Room Lighting Panel	1	26.3	50	✓ 55.5	30	"	LC & " "

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.										
Sanitary Pump Eng. Room	1	30	1	157.6	112 ✓	185	100	DHFA	"	Basket Weave	"	
Fire & Flushing Pump	1	30	1	157.6	112 ✓	185	100	"	"	" Armoured	"	
Ballast Pump Fwd.	1	30	1	133	112 ✓	158	400	VC	LC &	"	"	
Ballast Pump Aft	1	30	1	157.6	112 ✓	185	100	DHFA	"	"	"	
L. O. Purifier	1	1.5	1	4.4	6.6	15	50	"	"	"	"	
Red. Gear L.P. Pump No. 1 & 2	1	3	1	4.4	12.6	15	50	"	"	"	"	
Lub Oil Standby Pump (each)	1	1.5	1	4.4	6.6	15	50	"	"	"	"	
Pump Room Bilge (each)	1	3	1	4.4	12.6	15	80	"	"	"	"	
Fresh Water Pumps 1 & 2	1	1.5	1	4.4	6.6	15	100	"	"	"	"	
P. & S. Anchor Windlass	1	20	1	168	150 ✓	185	500	VC	" "	"	"	
H.W. Cir. Pump	1	.25	1	4.4	1.2	15	90	DHFA	"	"	"	
Drill Press	1	.25	1	4.4	1.2	15	30	"	"	"	"	
Fuel Oil Purifier	1	1.5	1	4.4	6.6	15	50	"	"	"	"	
Fuel Oil Transfer	1	3	1	4.4	12.6	15	50	"	"	"	"	
Forward Deck Winch	1	20	1	66.4	75 ✓	99	500	VC	" "	"	"	
Stern Anchor Capstan	1	50	1	250.5	182 ✓	279	150	DHFA	"	"	"	
Air Compressor	1	6.1	1	14.3	24.5	41	80	"	"	"	"	
P.&S. S.W.Cir. Pump each	1	5.0	1	14.3	20 ✓	41	50	"	"	"	"	
Ice Mach. & Pump	1	7.5	1	30.8	30 ✓	65	150	"	"	"	"	
P. & S. Crews Blower	1	-	1	4.4	2.2	15	100	"	"	"	"	
Officers Pantry, etc.	1	-	1	4.4	12.2	15	50	"	"	"	"	
Potatoe Peeler	1	-	1	4.4	2.2	15	50	"	"	"	"	
Dough Mixer	1	-	1	4.4	2.2	15	50	"	"	"	"	
Crews Blower	1	-	1	4.4	10.3	15	80	"	"	"	"	
Galley Exhaust	1	-	1	4.4	6.6	15	100	"	"	"	"	
Galley Plug	1	-	1	4.4	-	15	50	"	"	"	"	
Main Deck Exhaust	1	-	1	4.4	4.4	15	150	"	"	"	"	
Crews Mess Ref.	1	-	1	4.4	12.2	15	150	"	"	"	"	
P.&S. Aft Vent Fans each	1	14.5	1	38.9	55 ✓	75	120	"	"	"	"	
P.&S. Steering Gear Motor each	1	10	1	30.8	40 ✓	65	180	"	"	"	"	
Lathe Motor	1	3	1	4.4	12.6	15	18	"	"	"	"	
Bench Grinder	1	3	1	4.4	12.6	15	20	"	"	"	"	
No. 1 & 2 Air Compressor	1	7.5	1	14.3	30 ✓	41	80	"	"	"	"	

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.

L. C. Bries General Manager Electrical Contractors. Date Oct. 25, 1948
Todd Shipyards Corporation (Galveston Division)

COMPASSES.

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

Builder's Signature.

Date.....

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

Is this installation a duplicate of a previous case Engine Room If so, state name of vessel Tucupita
& generator for aft

Plans. Are approved plans forwarded herewith Yes If not, state date of approval -

Certificates. Are certificates of test for motors engaged on essential sea services and generators forwarded herewith Not available

General Remarks. (State quality of workmanship, whether insulation tests, etc., have been made, opinions as to class, etc.)

Examined and tested as per Rule for Classification purposes (see Galveston Report) and
found to be efficiently installed and securely fitted in vessel. Particulars and arrange-
ments verified and so far as seen found in accordance with the particulars shown on this
form and in general conformity with the Society's Rules.

Fuel Oil Pumps have a stop button located on deck as per Section 20 of the Rules for steel
ships.

This vessel was originally fitted for a three wire grounded system and it has been arranged
with the Owners to fit 110 volt motor generator sets on a two wire system with both poles
insulated for lighting as soon as these sets can be procured.

No exception was taken to the U. S. Navy type HFA cables fitted in the Engine Room and ac-
commodation which are not lead sheathed, as all new wiring installed was lead covered and
armoured as required by the Rules and the armouring of the existing cable was effectively
earthed.

Total Capacity of Generators 300 Kilowatts.

The amount of Fee ... £	:	:	When applied for,
			<u>19</u>
Travelling Expenses (if any) £	:	:	When received,
			<u>19</u>

James L. Lister
Surveyor to Lloyd's Register of Shipping.

Committee's Minute NEW YORK DEC 22 1948

Assigned Elec. light