LAREDO

M/V Dularge – Class 170 Liftboat – Vessel Specifications

Main Characteristics

Overall Length	103 ft 6 in
Overall Beam	73 ft
Length Barge Only	100 ft
Hull Depth	10 ft
Design Draft	8 ft 0 in (based upon deck load)
Total Deck Space	3,500 sq ft
Usable Deck Space	3,000 sq ft
Fuel Capacity	9,000 gal
Potable Water	14,000 gal
Gross Tonnage	Under 200 GRT
Max Deck Cargo	200,000 lbs.

Special Features

VIP Stateroom	(1) Company Rep Room with Workspace; Private Shower and Toilet
Lounge Room	Seating and TV

Registration

Flag	United States

Jacking

Max Working Depth	125 ft (with 25 ft air gap)
Max Height of Deck	160 ft (above mud line less penetration)
Max Sea Conditions	4 ft (hard bottom) / 5 ft (soft bottom)

Legs

Number	4
Length	170 ft
Diameter	54 in
Wal Thickness	3/4 in Braced

Navigation / Communication Equipment

Communications	Satellite (phone, fax, internet, email)
Radios	Multichannel VHF Marine Radio; SSB
Positioning	GPS
Radar	Furuno System
Depth	Fathometer (Video Depth Sounder)

Cranes (API 2C Certified)

Main	Capacity – 100 tons
	Boom Length – 100 ft
	Engine – 8V-71N GM
Auxiliary	Capacity – 5 tons
	Boom Length – 50 ft2
	Engine – 6V-71N GM

Generators

Engines	(2) 8V-71N GM
Generators	(2) 99 KW

Pads

Length	28 ft
Width	13 ft
Depth	2 ft 6 in

Propulsion

Main Engines	(3) 12V-71N GM
Shaft Horsepower	Approx. 1340 SHP
Estimated Speed	5 knots
Reduction Gear (twin disc ratio)	4:1

Accessories

Submersible Pumps	(2)
Welding Machines	(2) 300 Amp

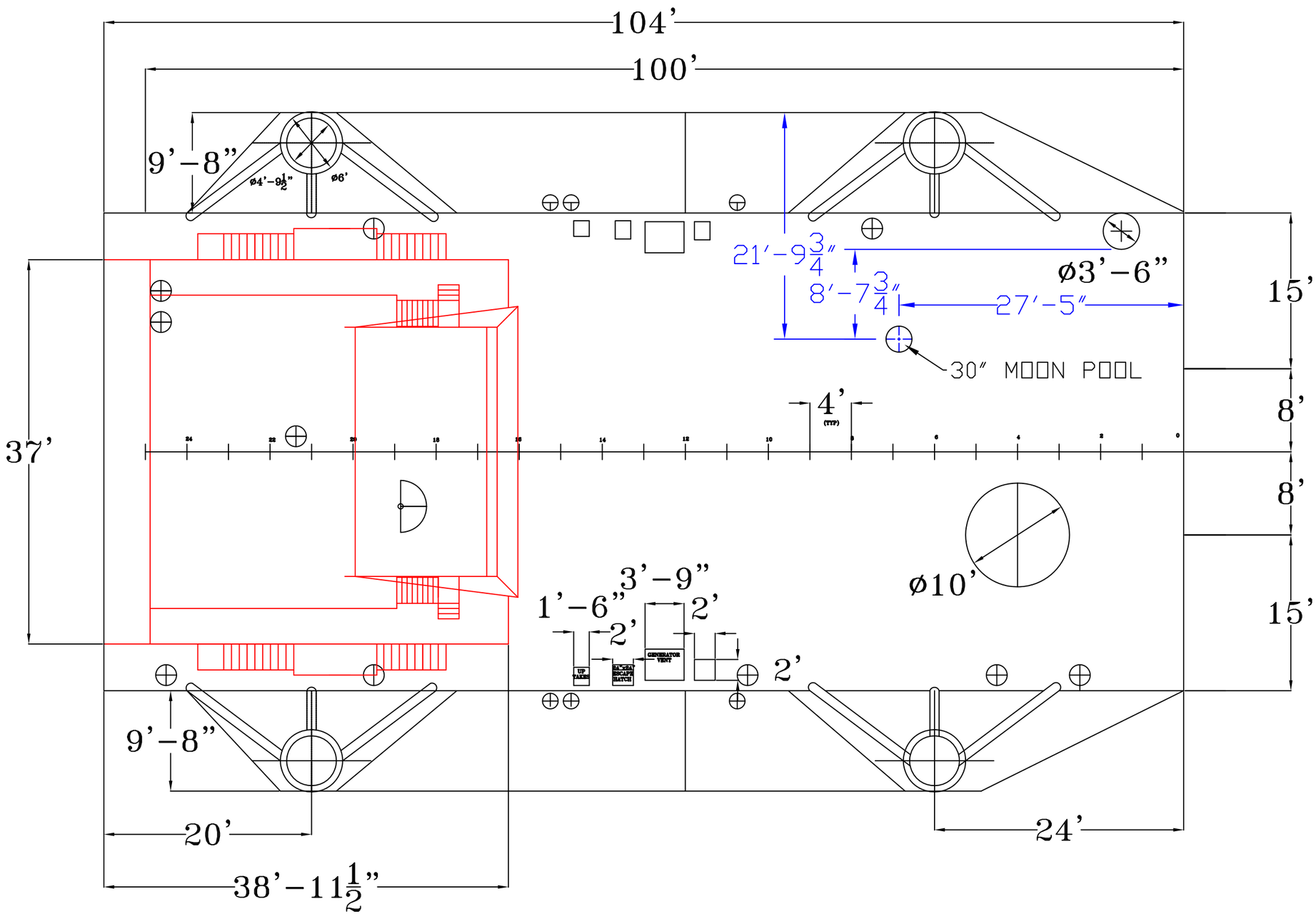
Accommodations

Berths	Total 38 (5 crew / 33 PAC's)
Climate	Central A/C and Heating Units
Lounge	Satellite TV and Sofas
Lavatory Facilities	(4)
Galley	(16) Seats; Freezer and Icemaker
Laundry	(2) Washers and Dryers

Moon Pool

30 in Diameter

Class 170 Liftboat M/V Dularge



DULARGE - CRANE LOAD CHART

LOADS STATED IN THOUSANDS OF POUNDS

100’ BOOM										JIB			
RADIUS FEET	**ANGLE DEG.**	**14 PART**		**12 PART**		**10 PART**		**8 PART**		**2 PART**		**1 PART**	
		STAT	**DYN.**	**STAT**	**DYN.**	**STAT**	**DYN.**	**STAT**	**DYN.**	**STAT**	**DYN.**	**STAT**	**DYN.**
20.0	82.8	230.0	156.4	206.3	156.4	180.4	156.4	147.9	147.9	24.0	21.7	12.0	12.0
25.0	79.9	230.0	146.2	206.3	146.2	180.4	120.9	147.9	146.2	24.0	21.7	12.0	12.0
30.0	76.9	200.0	134.0	200.0	134.0	180.4	120.9	147.9	134.0	24.0	21.7	12.0	12.0
35.0	74.0	170.3	114.1	170.3	114.1	170.3	114.1	147.9	114.1	24.0	21.7	12.0	12.0
40.0	70.9	148.2	99.3	148.2	99.3	148.2	99.3	147.9	99.3	24.0	21.7	12.0	12.0
45.0	67.9	130.9	87.7	130.9	87.7	130.9	87.7	130.9	87.7	24.0	21.7	12.0	12.0
50.0	64.7	117.1	78.4	117.1	78.4	117.1	78.4	117.1	78.4	24.0	21.7	12.0	12.0
55.0	61.5	105.8	70.9	105.8	70.9	105.8	70.9	105.8	70.9	24.0	21.7	12.0	12.0
60.0	58.1	96.3	64.5	96.3	64.5	96.3	64.5	96.3	64.5	24.0	21.7	12.0	12.0
65.0	54.6	88.3	59.2	88.3	59.2	88.3	59.2	88.3	59.2	24.0	21.7	12.0	12.0
70.0	51.0	81.5	54.6	81.5	54.6	81.5	54.6	81.5	54.6	24.0	21.7	12.0	12.0
75.0	47.1	75.6	50.7	75.6	50.7	75.6	50.7	75.6	50.7	24.0	21.7	12.0	12.0
80.0	43.0	70.4	47.2	70.4	47.2	70.4	47.2	70.4	47.2	24.0	21.7	12.0	12.0
85.0	38.4	65.8	44.1	65.8	44.1	65.8	44.1	65.8	44.1	24.0	21.7	12.0	12.0
90.0	33.2	61.7	41.3	61.7	41.3	61.7	41.3	61.7	41.3	24.0	21.7	12.0	12.0
95.0	27.1	58.1	38.9	58.1	38.9	58.1	38.9	58.1	38.9	24.0	21.7	12.0	12.0
100.0	19.6	54.9	36.8	54.9	36.8	54.9	36.8	54.9	36.8	24.0	21.7	12.0	12.0
105.0	9.7	51.9	34.8	51.9	34.8	51.9	34.8	51.9	34.8	24.0	21.7	12.0	12.0
106.0	7.3	51.4	34.4	51.4	34.4	51.4	34.4	51.4	34.4	24.0	21.7	12.0	12.0

1. WORKING RADIUS MEASURED FROM THE MAIN HOOK TO THE CENTERLINE OF ROTATION.
2. STATIC RATED LOADS ARE TO BE USED FOR LIFTING LOADS FROM OR SETTING LOADS ONTO FIXED, BOTTOM SUPPORTED STRUCTURES OR PLATFORMS. DYNAMIC RATED LOADS ARE TO BE USED FOR LIFTING LOADS FROM OR SETTING LOADS ONTO FLOATING PLATFORMS OR BOATS.
3. STATIC AND DYNAMIC RATED LOADS WERE COMPUTED IN ACCORDANCE WITH ALL REQUIREMENTS OF (API STD. 2C) STATIC RATED LOAD BASIS : 1.33 X LIVE LOAD + 1.0 X DEAD LOAD DYNAMIC RATED LOAD BASIS : Cb = 2.0
4. RATED LOADS ARE NET LOADS, A 5000 LB MAIN BLOCK AND A 210 LB OVERHAUL BALL HAVE BEEN DEDUCTED FROM GROSS LOADS, WEIGHTS OF ALL SLINGS, SPREADERS, SHACKLES, ETC. MUST BE INCLUDED IN THE LIFTED LOAD.
5. MAIN DRUM CABLE IS :1” DIA. 6 X 19 IWRC EIPS 51.7 TON BREAKING STRENGTH.
6. AUXILIARY DRUM CABLE IS 7/8” DIA. 19 X 7 IWRC EIPS 32.5 TON BREAKING STRENGTH.
7. LUFFING DRUM CABLE IS 1” DIA. 6 X 19 IWRC DIPS 51.7 TON BREAKING STRENGTH.
8. THE ABOVE RATINGS ARE STRUCTURAL ONLY. THE ACTUAL LIFTING CAPACITY OF THIS MACHINE MAY BE LIMITED BY THE MAXIMUM LINE PULL OF THE HOIST DRUMS.

LOAD CAPACITY CHART

LAREDO OFFSHORE L/B Dulargе

MFG. NAUTILUS CRANE
BOOM LENGTH: 50 FT.
MODEL: 10-50

MAIN HOIST ROPE: 1/2" X 350' 19X7
MAIN BLOCK WEIGHT: 125 LBS.
TWO PART REEVING

WORKING RADIUS (FT.)	BOOM ANGLE (DEG.)	ON-BOARD CAPACITY (LBS.)	OFF-BOARD CAPACITY (LBS.)	PERSONNEL CAPACITY (LBS.)
10	78	8,640	8,640	2,851
13	75	8,640	8,640	2,851
20	66	8,640	6,600	2,173
25	60	8,000	5,280	1,742
30	53	6,500	4,290	1,416
35	45	5,300	3,490	1,152
40	38	4,500	2,970	980
48	15	3,750	2,475	817
50	0	3,500	2,310	762

1. ALLOWABLE LIFTING CAPACITY SHOWN ABOVE DO NOT INCLUDE WEIGHT OF MAIN BLOCK OR RIGGING. THESE WEIGHTS MUST BE INCLUDED IN THE OVERALL LIFT WEIGHT.
2. USE STATIC (ON-BOARD) CAPACITY WHEN LIFTING TO OR FROM A STATIONARY/FIXED OBJECT.
3. USE DYNAMIC (OFF-BOARD) CAPACITY WHEN LIFTING FROM A MOVING OBJECT OR ENVIRONMENTAL FORCES.
4. MAIN HOIST LIFTING CAPACITIES REFLECT THE 10-50 CRANE UTILIZING A BRADEN PD-12 WINCH.