

# M/V DIXIE ENDEAVOR

## Marine Division Liftboat Specifications



# Class 250

Official No.: 1115290

Year Built: 2002

Call Sign: WDA 5234

### Pad Dimensions

Pad Length (ft.) 49'  
Pad Width (ft.) 29'  
Pad Depth (ft.) 5'

Comments: Raked at both ends

- 250' Legs

- 11,000 Square Feet of Total Deck Area

- 1,100,000 Lbs. Maximum Deckload

- Works In Water Depths Up To 180'

- Sleeps 50 Persons, Including a Standard Crew Complement of 12

- Can travel with 36 Passengers

Gross Tons:

ITC: 2276

Net Tons:

682

USCG Inspected

ABS Classed

SOLAS Classed

SOLAS Ready

Moonpool Equipped

Zero Discharge Capable

Zero Discharge Ready

## Vessel Characteristics

### Hull Dimensions

Length Overall (ft.) 234'  
Length (Barge Only) (ft.) 167'  
Beam Overall (ft.) 120'  
Beam (Barge Only) (ft.) 103'  
Hull Depth (ft.) 13'  
Design Draft (ft./in.) 13' 5"  
Open Deck Area (sq. ft.) 9,010'  
(92.7 x 97.2)

### Leg Dimensions

Internally Braced  
Number of Legs 3  
Leg Length (ft.) 250'  
Leg Diameter (in.) 102"  
LegWall (in.) 1.125"  
Leg Tower Height (ft.) 19'  
Triangle: 91 P/S x 132 A

### Crane Specifications

	Port	Starboard
Make	SeaTrax	SeaTrax
Model	10520	10520
Load Rating (tons)	175	175
Boom Type	Lattice	Lattice
Boom Length (ft.)	120'	120'
Crane Inst. Type	Leg Mount	Leg Mount

All published load ratings are based upon a 20 ft. radius

### Propulsion

Bow Thruster Equipped  
Mains - Make Caterpillar  
Mains - Model 3508B  
Horsepower 3840  
Clutch Make/Reduction Twin Disc 540 6.18:1

### Generators

Generator Engine Make Caterpillar  
Generator Engine Model 3412  
Generator Output 425 kw  
 Equipped w/ Aux Genset **Output:** 190 kw

### Capacities

Diesel Fuel (gal.) 40,488  
Potable Water (gal.) 29,676  
 Watermaker Equipped

### Electronic Aids & Communications

Compass  Cellular Phone  
 GPS/DGPS  Private Freq Radiotelephone  
 Loran  VHF Radio  
 Radar  Single Sideband Radio  
 Fathometer  GMDSS  
 Loudhailer  
 Sattelite Phone

### Personnel Accommodations Features

Total Sleeping Accommodations 50  
VIP Accommodations 2  
Crew Accommodations 14  
Contractor Accommodations 34

### Other Features

VIP Office  Laundry Facility  
 Galley & Dining  Air Conditioned/Heated  
 TV Lounge

AFT - HELIPAD 48' DIAMETER. LOAD RATING 12,000LBS

### Performance Characteristics

Estimated Speed 5 mph/ 4.34 knots  
Max Separation, Pad to Deck (ft.) 231'  
Max Working Water Depth (ft.) 180'  
Min Working Water Depth (ft.) 14'  
Max Jacking Soft Bottom 5'  
Sea States (ft.) Hard Bottom 4'

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## LOAD CHART



**Class  
250**

### PORTLEG & STBD. LEG

### MODEL - SEATRAX LM 10520 LEG CRANE LOAD CHART ABS

CRANE		6-PART MAIN HOIST		1-PART AUXILIARY HOIST	
		STATIC	DYNAMIC	STATIC	DYNAMIC
RADIUS IN FEET	ANGLE IN DEGREES				
25		372,317	372,317	55,034	55,034
30		372,317	372,317	55,034	55,034
35		372,317	372,317	55,034	55,034
40		372,317	342,243	55,034	55,034
45		331,833	301,348	55,034	55,034
50		295,845	268,632	55,034	55,034
55		266,400	241,364	55,034	55,034
60		241,863	219,557	55,034	55,034
65		221,101	200,683	55,034	55,034
70		203,305	184,504	55,034	55,034
75		187,881	170,483	55,034	55,034
80		174,386	158,214	55,034	55,034
85		162,478	147,389	55,034	55,034
90		151,893	137,767	55,034	55,034
95		142,423	129,157	55,034	55,034
100		133,900	121,409	55,034	55,034
105		126,188	114,398	55,034	55,034
110		119,177	108,025	55,034	55,034
115		112,776	102,206	55,034	55,034
120		106,909	96,871	55,034	55,034
127		98,973	89,657	55,034	55,034

### IMPORTANT: THIS TEXT APPLIES TO BOTH CHARTS

1. Static SWLs are to be used only for lifts from stationary platforms. Dynamic SWLs shall be used for lifts from vessels
2. Lower case letters after SWLs indicate the load limiting factor referenced in API Spec 2C, SEc 3, 3.1.2 (a) thru (f).
3. Rated loads are NET loads. A 3000 lb. main hook block & a 500 lb. overhaul ball have been deducted from gross loads.
4. Main drum cable is 1.5 dia. 18x19 HSLR, 250.0 kip nom strength, 1280 ft.
5. Aux drum cable is 1.5 dia 18 x 19 HSLR, 250.0 kip. nom strength, 330 ft.
6. The specified hook travel for this machine is 190 ft.



### SEATRAX MONARCH SERIES 105 MODEL 10520

### API STATIC & DYNAMIC RATINGS

RADIUS IN FEET	DYNAMIC	STATIC	DYNAMIC	STATIC	DYNAMIC	STATIC	DYNAMIC	STATIC
	2-PART MAIN	2-PART MAIN	4-PART MAIN	4-PART MAIN	6-PART MAIN	6-PART MAIN	SINGLE AUX	SINGLE AUX
25	97000B	97000B	191797A	197000B	191797A	287695A	49500B	49500B
30	97000B	97000B	160416A	197000B	160416A	240624A	49500B	49500B
35	97000B	97000B	137445A	197000B	137445A	206168A	49500B	49500B
40	97000B	97000B	119851A	179776A	119851A	179776A	49500B	49500B
45	97000B	97000B	105949A	158924A	105949A	158924A	49500B	49500B
50	94829A	97000B	94829A	142243A	94829A	142243A	49500B	49500B
55	85555A	97000B	85555A	128333A	85555A	128333A	49500B	49500B
60	77749A	97000B	77749A	116622A	77749A	116622A	49500B	49500B
65	71146A	97000B	71146A	106719A	71146A	106719A	49500B	49500B
70	65489A	97000B	65489A	98234A	65489A	98234A	49500B	49500B
75	60526A	90789A	60526A	90789A	60526A	90789A	49500B	49500B
80	56186A	84279A	56186A	84279A	56186A	84279A	49500B	49500B
85	52304A	78457A	52304A	78457A	52304A	78457A	49500B	49500B
90	48858A	73287A	48858A	73287A	48858A	73287A	48858A	49500B
95	45777A	68665A	45777A	68665A	45777A	68665A	45777A	49500B
100	43007A	64510A	43007A	64510A	43007A	64510A	43007A	49500B
105	40461A	60691A	40461A	60691A	40461A	60691A	40461A	49500B
110	38149A	57224A	38149A	57224A	38149A	57224A	38149A	49500B
115	36080A	54121A	36080A	54121A	36080A	54121A	36080A	49500B
120	34113A	51170A	34113A	51170A	34113A	51170A	34113A	49500B
127	31527A	47291A	31527A	47291A	31527A	47291A	31527A	47291A

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## LIFTBOAT SPECIFICATIONS



Class  
**250**

