



180 FOOT CLASS - DP1 - MULTI PURPOSE VESSEL M/V BERTO L MILLER

DIMENSIONS

LENGTH 180 ft	46.54 m LBP
BEAM 44 ft	13.41 m
DEPTH 12 ft	3.66 m
LIGHT DRAFT 6.5 ft	1.98 m
LOADED DRAFT 10 ft	3.04 m

ACCOMODATIONS

CABINS/BERTHS	28 BERTHS
4 PERSON BERTHS	5
8 PERSON BERTHS	1
CERTIFIED TO CARRY	28

CAPACITIES

FUEL CAPACITY 94,000 USG	355.83 m ³
FRESH POTABLE WATER 75,000 USG	283.91 m ³
*ADDITIONAL STORAGE 69,300 USG	262.33 m ³
POTABLE WATER 11,400 USG	43.15 m ³
LUBE OIL 1,700 USG	6.44 m ³
DIRTY OIL 4,600 USG	17.41 m ³
HYDRAULIC OIL 560 USG	2.33 m ³

DISCHARGE RATES

FUEL PUMP RATE 400 GPM	90.8 m ³ /hr
FRESH POTABLE WATER 600 GPM	136.3m ³ /hr

PERFORMANCE

MAXIMUM SPEED	12 KNOTS
CRUISING SPEED	10 KNOTS
MAXIMUM HP	27 BHP

CARGO DECK

TONNAGE 784 US Ton	700 LT
STRENGTH 540 lb/ft ²	2636 kg/m ²
LENGTH 116 ft	35.36 m
WIDTH 38 ft	11.58 m
CLEAR SPACE 4408 ft ²	409.52 m ²

01 DECK

LENGTH 12 ft	3.66 m
WIDTH 38 ft	11.6 m
DISTANCE ABOVE DECK 13 ft	3.96 m

MACHINERY (EPA TIER 3 COMPLIANT)

MAIN ENGINES	2 CATERPILLAR C3512
TOTAL HORSEPOWER	2700 BHP
PROPULSION	DIESEL
GENERATORS	2 CATERPILLAR C4.4 99KW
BOW THRUSTER	CATERPILLAR C9.3 - SCHOTTEL 379 BHP
RUDDER SPADE	- INDEPENDENT RUDDERS

ELECTRONICS AND CONTROLS

GYRO COMPASS	2 SIMRAD GC-80
DYNAMIC POSITIONING	BEIER IVCS 4000 DP1
DP REFERENCES	YES
GPS	2 FURUNO
DGPS	2 SAAB
WIND TRACKER	YES
MAIN ENGINE CONTROLS	LOCAL AND BRIDGE
RADAR	2 FURUNO
SSB RADIO	1
VHF	3
LOAD HAILER	2
FATHOMETER	1 FURUNO
INTERFACED CHARTPLOTTER	FURUNO/ ROSEPOINT
AIS	1 FURUNO FA - 170

MAIN WINCH

LINE PULL	30 TON
DRUM CAP. 1in - 25.4 mm WIRE	4335 ft 1321 m
DRUM CAP. 1-1/2 in - 38.1 mm WIRE	1994 ft 607 m
DRUM CAP. 2 in - 50.8 mm WIRE	947 ft 288 m

TUGGER

LINE PULL	8 TONS
DRUM CAP 1/2 in - 12.7 mm WIRE	412 ft 125 m
DRUM CAP. 5/8 in - 15.9 mm WIRE	225 ft 68 m
DRUM CAP. 3/4 in - 19 mm WIRE	150 ft 45 m

SPECIAL EQUIPMENT

ANCHOR CHAIN	800/800 ft, 243m/243m - 1 in, 25.4mm CHAIN
ANCHOR	2 - 1500#
LIFE RAFTS	2 - 25 PER, 1 - 6 PER, 1 - 4 PER
WALK-IN COOLER	YES
WALK-IN FREEZER	YES
A/C & HEATER	10 TONS
FIRE MONITOR	4" EKHART
MOON POOL	30" X 30"

STERN ROLLER

LENGTH	16 ft 4.87 m
DIAMETER	24in .609 m

GENERAL

OWNER	MILLER'S TUG & BARGE, INC.
BUILDER	MASTER BOATS
YEAR BUILT	1999
OFFICIAL NUMBER	1085966
FLAG	USA
USCG SUB I & L	
ABS LOADLINE	
GROSS TONNAGE	99 LT
NET TONNAGE	67 LT

OPTIONAL EQUIPMENT

30 TON A-FRAME	SEE PAGE 83
15 TON A-FRAME	SEE PAGE 84
14 TON CRANE	SEE PAGE 78
9 TON PEDDESTAL CRANE	SEE PAGE 79
PAM FOUNDATION GRID	YES
LARS FOUNDATION	YES