

# 500-1 - 400' x 105' x 20' - 121.92 m x 32.00 m x 6.10 m



## Specifications

Summer Load Line Keel Draft	14' 2.75"	4.34 m
Summer Load Line Displacement	16,397 ST	14,875.11 MT
Summer Load Line Deadweight	13,160 ST	11,938.55 MT
Lightship Draft	3' 5.75"	1.06 m
Lightship Displacement	3,237 ST	2,936.56 MT
Lightship LCG Forward of Transom	200.4'	61.08 m
Lightship VCG Above Baseline	12.0'	3.66 m
Draft Mark Locations - Forward of Transom		
Fwd Marks	322'	98.15 m
Aft Marks	78'	23.77

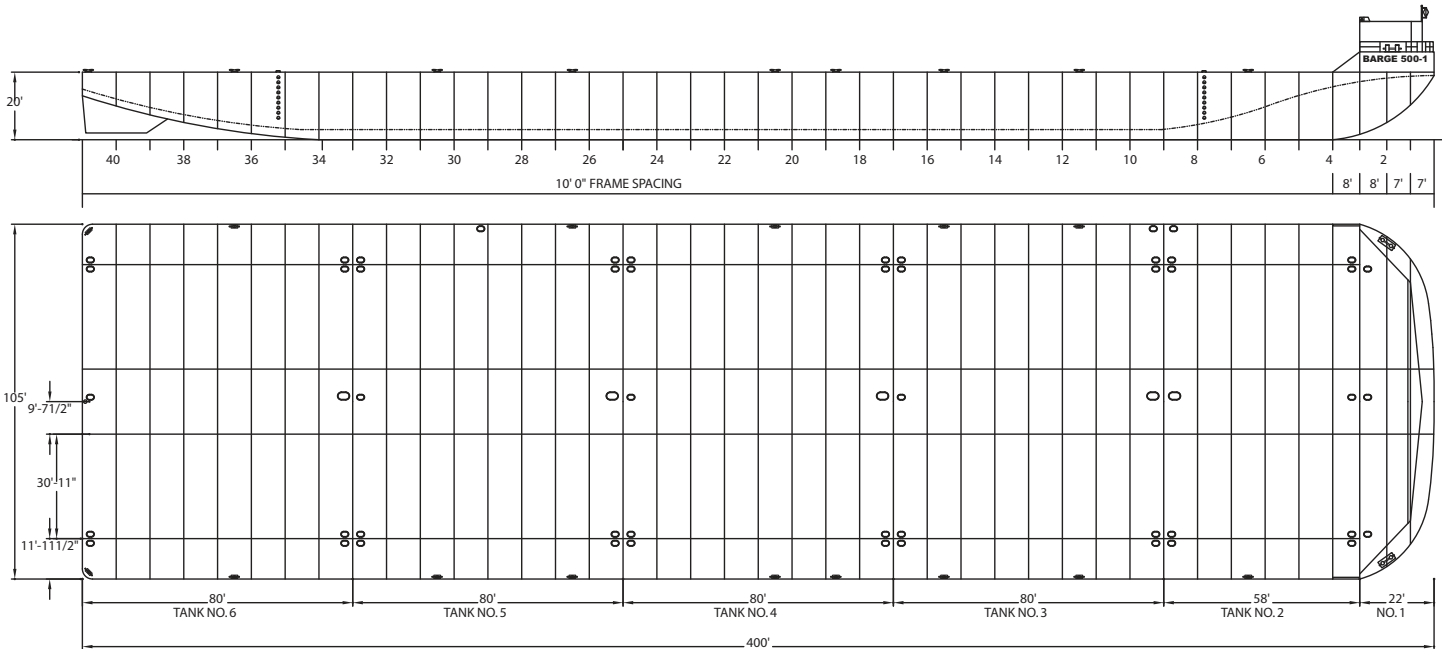
## Longitudinal Strength Data

Maximum Allowable Still Water Bending Moments		
In Port	225,459 LT-ft	69,823 MT-m
At Sea	104,772 LT-ft	32,447 MT-m
Maximum Allowable Still Water Shear Force		
In Port	4,034 LT	4,098.73 MT
At Sea	1,897 LT	1,927.44 MT

DWT (M/T)	DRAFT (M)	DWT (S/T)	DRAFT (FEET)	DISPL (S/T,S.W.)	TPI
11793	4.0	13000	14	16000	108
10886		12000	13	15000	
9979		11000	12	14000	
9072		10000	11	13000	
8165	3.0	9000	10	12000	106
7257		8000	9	11000	
6350		7000	8	10000	
5443		6000	7	9000	
4536	2.0	5000	6	8000	100
3629		4000	5	7000	
2722		3000	4	6000	
1814		2000	3	5000	
907	1.0	1000	2	4000	94
		0	1	3000	92

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# 500-1 - Summary of Allowable Loads



## Transverse Frames

Uniform Linear Load	37,011 lbf/ft	55.81 MT/m
Point Load	178,725 lbs	81.07 MT

## Transverse Bulkheads

Uniform Linear Load	46,488 lbf/ft	69.18 MT/m
Point Load		
(only over web frames)	464,878 lbf	210.87 MT

## Longitudinal Bulkheads

Uniform Linear Load	29,968 lbf/ft	44.60 MT/m
Point Load		
(only over web frames)	343,069 lbf	155.61 MT

## Nominal Overall Deck Load Rating

Counting Long'l Stiffeners	2,535 lbf/ft <sup>2</sup>	12.38 MT/m <sup>2</sup>
Counting only Frames, Rail Girders and Bhds	2,535 lbf/ft <sup>2</sup>	12.38 MT/m <sup>2</sup>

## Intersection of Structures

Transverse and Longitudinal Bulkheads	448.23 Kips	203.31 MT
Transverse Bulkhead and Side Shell	620.00 Kips	281.23 MT
Transverse Frame and Side Shell	519.80 Kips	235.78 MT

