

# MOMENT OF INERTIA CALCULATION.

12/9/84

Name of Vessel

Builder's Name and Yard No. 735 *Leard Hunt*

~~RULE~~ DIMENSIONS 76.0 x 87.5 x 60.5 CLASS

Distance of Assumed Neutral Axis above Base 30.0

Depth of Girder 60.5

*Below N.A.*

31.3

8

61.3

ITEMS.	DIMENSIONS.	AREA.	C. G. FROM NEUTRAL AXIS.	MOMENT.	MOMENT OF INERTIA.	CORRECTION $\frac{1}{12} A H^3$ .
Keel & Garbd	54 x 1.05					
Bottom	75 x 1.10	139	29.9	4156	124300	
Bilge 1	396 x 1.05	416	29.7	12355	367,000	
" 2	54 x 1.05	57	27.8	1,585	44,050	
" 3	50 x 1.05	52	25.8	1,341	34,610	
" 4	52 x 1.05	55	22.9	1,260	28,850	
Bilge 465	107 x 1.05	112	17.8	1994	35,490	<del>27.6</del> 8 <sup>2</sup>
Side plst.	204 x 1.00	204	7.25	1469	10,580	14.4 <sup>2</sup>
Tank top	33 x .80 390 x .75	318	24.8	7886	195,600	
" " Bilge	66 x .75	49	23.8	1166	27,750	
Margin plst.	6 x 6 x 16/10 72 x .80	67	22.5	1507	33,920	
Centre girder	58 x .50	29	27.4	795	21,770	
Bottom angles	6 x 6 x 18/10	10	29.6	296	8,760	
Top angles	5 x 5 x 13/10	7	25.2	176	4,430	
Side girders	50 x 2.40	120	27.4	3,288	90,000	
# & angles	20 4 x 4 x 14/10 54 x .60	41	27.0	1,123	30,330	
" 1	44 x .60	26	25.9	673	17,440	
# O. keel thr.	26 x .60 6 1/2 x 4 1/2 x 10/10	24	52	125	650	
Bilge " "	20.	24	13.2	317	4,180	
# L.B.H. plst	165 x 5/16	82	18.2	1,492	27,160	12.9 <sup>2</sup>
" "	62 x 5/16	28	5.3	148	790	
" "	50 x .45	22	1.7	37	60	
" Angle 6	5 x 5 x 14/10	6	24.6	148	3,650	
" " top	5 x 5 x 14/10					
		1888		43,337	1,116,630	



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