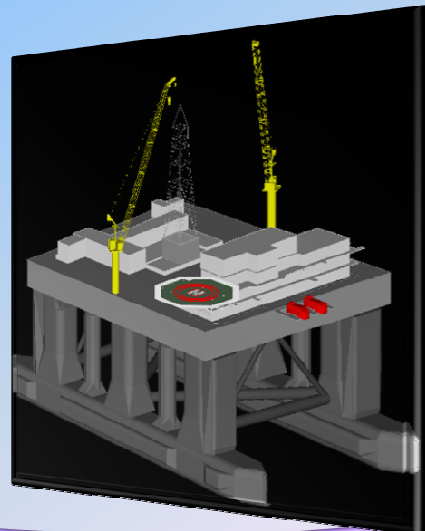
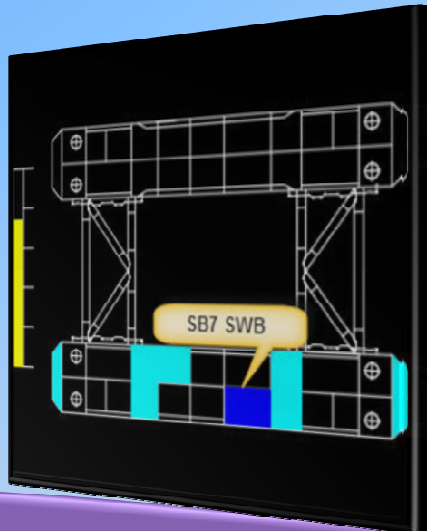
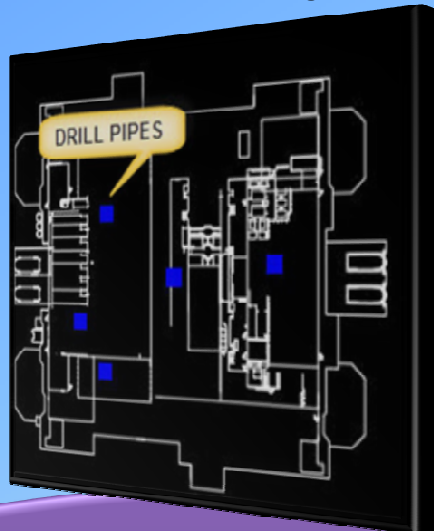




# LOSEMI

## On-board Load and Stability Program for Semi-Submersible

Part of Zentech's Suite of Load and Stability (LoStab) Programs, LoSemi is an interactive, menu-driven, rig-specific software used in data management and loading calculations in the day-to-day operations of Semi-Submersible rigs.



...Call now for a hands-on Demonstration.

Afloat Status		
33.18	Port	33.47
	31.47	
Aft		Fwd
29.48	Stbd	29.76
<b>Deepest Draft is 47.94 ft</b>		
Deck Load	6130.00	ST.
Trim	0.09	Deg
Heel	-0.96	Deg
GM (Min)	39.21	ft
KG Margin(Cor)	31.74	ft
LCG: +ve Fwd. from Frame 31		
TCG: +ve Stbd, -ve Port from Hull CL		
VCG: +ve up from Pontoon Baseline		
Trim +ve by Bow	Heel +ve by Stbd	
<b>Print Afloat Status Details</b>		

### Special Features

- Updates of draft, trim and heel, deck loads and KG margin, 3D/2D views with every entry.
- Weight management by grouping and sub-grouping (with the choice of global or local coordinate systems).
- Various modes of operation (Transit, Survival and Operating)
- Grouping of weights based on Solids, Liquids and Miscellaneous items.
- Ballasting and De-ballasting procedures and load equalization calculations to achieve desired draft, trim and heel.
- Calculation of stability parameters.
- Validates the input values and displays warning messages and graphical representation of percentage of allowable for different items.
- Interface with Mooring advisory software ZenMAP.
- Large angle stability calculations.
- Single view shows condition total, stability window, 2D and 3D views of the vessel.
- Damaged stability calculations.



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## LOSEMI

- Multiple allowable KG curves for different floating drafts.
- Individual weights and CGs, totals and subtotals.
- Calculation of liquid weights and CGs from tank tables.
- Generate various reports like variable summary, condition total and stability summary and option to send it by email.
- Highlight tank of the current section in 2D and 3D views.
- Plots of tank tables, hydrostatics, allowable wind wave chart.

**Select damaged tanks**

☒ PB1 SWB (19.98) ☒ PB12 SWB (0.00) ☒ SFB1 SWB (0.00)  
☒ SB1 SWB (0.00) ☒ SB13 SWB (0.00) ☒ PFB1 SWB (0.00)  
☒ SB4 SWB (0.00) ☒ PB13 SWB (0.00) ☒ SFB2 SWB (0.00)  
☒ PB4 SWB (0.00) ☒ SB16 SWB (0.00) ☒ PFB2 SWB (0.00)  
☒ SB5 SWB (0.00) ☒ PB16 SWB (0.00) ☒ SFB3 SWB (0.00)  
☒ PB5 SWB (0.00) ☒ SAB1 SWB (0.00) ☒ PFB3 SWB (0.00)  
☒ SB7 SWB (0.00) ☒ PAB1 SWB (0.00) ☒ SDW9 Drill Water  
☒ PB7 SWB (0.00) ☒ SAB2 SWB (0.00) ☒ PDW9 Drill Water  
☒ SB10 SWB (0.00) ☒ PAB2 SWB (0.00) ☒ SDW11 Drill Water  
☒ PB10 SWB (0.00) ☒ SAB3 SWB (0.00) ☒ PDW11 Drill Water  
☒ SB12 SWB (0.00) ☒ PAB3 SWB (0.00)

☐ Select All    Target Trim is 0.00    Target Heel is 0.00       

**Variable Load Summary**

No	Item Description	Weight	Unit	Volume	Unit	Wgt Density	Unit
<b>LIQUID CONSUMABLES</b>							
1	Liq Mud Pontoon	0.00	ST	0.00	Bbl	0.00	Usg/Gal
2	Brine	420.93	ST	108.96	Bbl	106.12	Usg/Gal
3	Base Oil	202.96	ST	172.12	Bbl	56.18	Usg/Gal
4	Fuel Oil	1060.83	ST	860.53	Bbl	57.00	Usg/Gal
5	Drill Water	549.96	ST	3141.11	Bbl	62.40	Usg/Gal
<b>TOTAL LIQUID CONSUMABLES</b>		2264.67	ST				
<b>BALLAST &amp; VOID TANKS</b>							
1	Pontoon Ballast S	0.00	ST	0.00	Bbl	0.00	Usg/Gal
2	Pontoon Ballast P	0.00	ST	0.00	Bbl	0.00	Usg/Gal
3	Col Ballast SF	418.87	ST	2282.59	Bbl	64.00	Usg/Gal
4	Col Ballast SA	590.42	ST	3004.60	Bbl	64.00	Usg/Gal
5	Col Ballast PF	150.00	ST	895.91	Bbl	64.00	Usg/Gal
6	Col Ballast PA	120.00	ST	648.25	Bbl	64.00	Usg/Gal
7	Voeds Pontoon	0.00	ST	0.00	Bbl	0.00	Usg/Gal
8	Voeds Column	0.00	ST	0.00	Bbl	0.00	Usg/Gal
<b>TOTAL BALLAST &amp; VOID</b>		1282.29	ST				
<b>VARIABLE DECK LOADS</b>							
1	Misc Tanks Dr Floor	0.00	ST	0.00	Bbl	0.00	Usg/Gal
2	Port Pipe Rack	0.00	ST				
3	Stbd Pipe Rack	0.00	ST				
4	Port Pipe Rack	6000.00	ST				
5	Stbd Pipe Rack	0.00	ST				
6	Stores/Workshop	0.00	ST				
7	Machinery Port	0.00	ST				
8	Machinery Stbd	0.00	ST				
9	Machinery Fixed	0.00	ST				
10	Machinery Lift	0.00	ST				
<b>Total Deck Load</b>		6130.00	ST				
<b>Avg WCG</b>		137087.51	ft				

- AutoSave option and Undo/Redo option.
- Facility to archive and retrieve loading conditions.
- Tooltip to assist user to input data.
- Incline calculations and estimation of Lightship (optional).

### System Requirements

Windows® XP, Windows 7 or Windows 8.

### Customer Support

We offer customers better turnaround on e-mail support.

Any technical issues will be resolved in a quick and timely fashion.

<http://www.zentech-usa.com/contact.html>

**Mooring System: Selected Case is \*\*\* Current Case \*\*\***

SL No	Item Description	Tension Kips	WTens ST	LCG	TCG	WCG
1	LINE 10 94.5	217.19	95.31	262.64	18.50	45.00
2	LINE 20 112.5	196.77	86.57	262.64	-0.00	45.00
3	LINE 30 129.5	187.05	83.77	262.64	-18.50	45.00
4	LINE 40 150.5	130.03	56.92	247.65	-27.01	42.91
5	LINE 50 219.5	189.01	81.82	-13.54	-177.95	45.00
6	LINE 60 235.5	176.13	76.27	-29.56	-168.70	45.00
7	LINE 70 252.5	176.73	78.18	-45.58	-158.45	45.00
8	LINE 80 268.0	130.29	54.16	-45.56	-142.22	42.91
9	LINE 90 335.5	212.77	94.56	-45.58	-158.45	45.00
10	LINE 100 359.5	115.88	47.38	-29.56	-168.70	45.00
11	LINE 110 8.5	118.39	47.99	-13.54	-177.95	45.00
12	LINE 120 23.5	146.75	61.07	1.32	168.23	42.91
<b>Vert Mooring</b>		864.00	78.93	-5.07	44.58	
<b>Condition Total</b>		17564.67	63.99	4.06	84.98	

Drafts: Ft  
 13.67 Port  
 14.98 Aft  
 15.12 Fwd  
 15.78 Stbd  
 Deck Load: 0.00 ST  
 Trim: 0.21 Deg  
 Heel: 0.59 Deg  
 GH (min): 393.67 ft

- Mooring line tensions included in load cases.
- Estimation of free surface moments (FSM) for each tank and for the unit.
- Facility for updating tank sounding with real-time sounding of tanks.
- Multiple document interface with interactive display option for viewing multiple loading conditions.
- Change tank sounding using sounding tube in 2D view.
- Summary of consumables and their break-up.
- Position solids by dragging on 2D view.
- Blocking of fields to restrict user entry.
- Assistance in verification of user input data.
- Export to excel and Paste from excel options.
- Comprehensive Help menu.

**Stability Summary**

Free Surface Moment

Longitudinal: 45953.93  
 Transverse: 62362.84   

Total Weight: 29676.96 ST    Mean Draft: 31.47 ft  
 Deck Load: 6130.00 ST

LCG	0.18	ft	Trim	0.09	Deg
TCG	-0.66	ft	Heel	-0.96	Deg
VCG	60.54	ft	FS Corr(max)	2.10	ft
KMT	101.85	ft	KML	168.67	ft
GMT(Corr)	39.21	ft	GML(Corr)	106.02	ft
LCB	0.01	ft	LCF	0.07	ft
TCB	0.00	ft	TCF	0.00	ft

Corrected KG: 62.64 ft  
 Allowable KG: 94.39 ft  
 KG Margin(Corr): 31.74 ft

Selected KG Curve: TRANSIT



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