Zebec
MARINE CONSULTANTS & SERVICES

ZEBEC LOADMASTER

Onboard Stability & Strength Software

New requirements for onboard stability instruments applicable to all tankers are effective from 1st January 2016. MARPOL Annex I Ch.4, the IBC/BCH Code and the IGC/GC Code have all been amended, requiring tankers to be fitted with stability instrument capable of handling both intact and damage stability

Zebec Loadmaster is a Microsoft Windows Ship Loadicator Software designed to assess intact and damage stability of the vessel including longitudinal strength.

Functions of ZebecLoadMaster

- Preparation of Loading Condition
- Intact Stability Calculation
- Damage Stability Calculation
- Longitudinal Strength Calculation
- Corrective Action/Counter Measure Calculation

ZebecLoadMaster

Designed as per IMO Guidelines.

Approved by Classification Societies;

- Indian Register of Shipping (IRS)
- Nippon Kaiji Kyokai (NK/ClassNK)
- Registro Italiano Navale (RINA)
- China Classification society (CCS)

Types of Vessels using ZebecLoadMaster

- Oil Tanker
- Chemical Tanker
- Gas Carrier
- Container Vessel
- RO RO Vessel
- Offshore Vessel
- Navy/ Coast Guard Vessel

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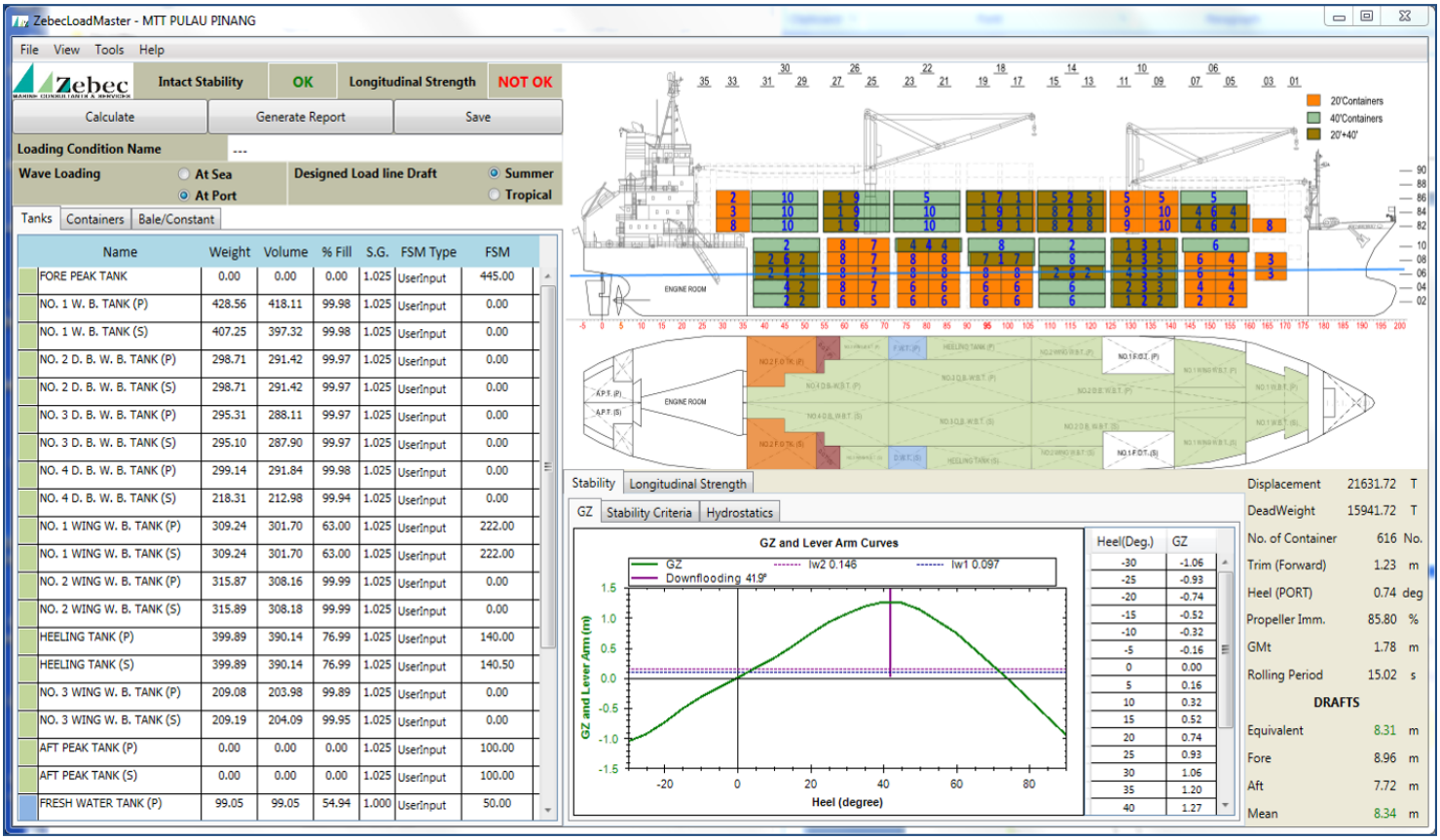
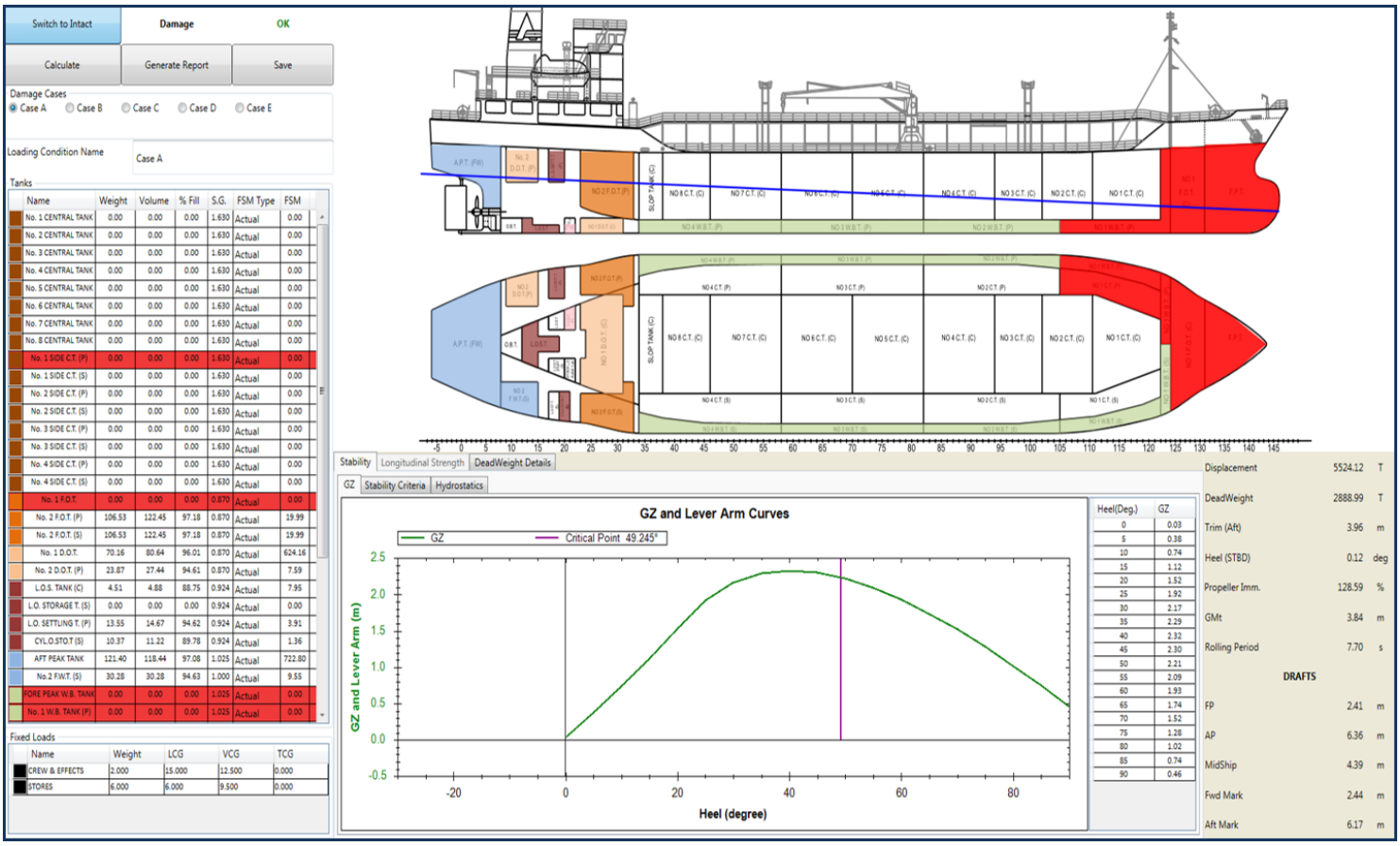


Name	Weight	Volume	% Fill	S.G.	FSM Type	FSM
FORE PEAK TANK	0.00	0.00	0.00	1.025	UserInput	445.00
NO. 1 W. B. TANK (P)	428.56	418.11	99.98	1.025	UserInput	0.00
NO. 1 W. B. TANK (S)	407.25	397.32	99.98	1.025	UserInput	0.00
NO. 2 D. B. W. B. TANK (P)	298.71	291.42	99.97	1.025	UserInput	0.00
NO. 2 D. B. W. B. TANK (S)	298.71	291.42	99.97	1.025	UserInput	0.00
NO. 3 D. B. W. B. TANK (P)	295.31	288.11	99.97	1.025	UserInput	0.00
NO. 3 D. B. W. B. TANK (S)	295.10	287.90	99.97	1.025	UserInput	0.00
NO. 4 D. B. W. B. TANK (P)	299.14	291.84	99.98	1.025	UserInput	0.00
NO. 4 D. B. W. B. TANK (S)	218.31	212.98	99.94	1.025	UserInput	0.00
NO. 1 WING W. B. TANK (P)	309.24	301.70	63.00	1.025	UserInput	222.00
NO. 1 WING W. B. TANK (S)	309.24	301.70	63.00	1.025	UserInput	222.00
NO. 2 WING W. B. TANK (P)	315.87	308.16	99.99	1.025	UserInput	0.00
NO. 2 WING W. B. TANK (S)	315.89	308.18	99.99	1.025	UserInput	0.00
HEELING TANK (P)	399.89	390.14	76.99	1.025	UserInput	140.00
HEELING TANK (S)	399.89	390.14	76.99	1.025	UserInput	140.50
NO. 3 WING W. B. TANK (P)	209.08	203.98	99.89	1.025	UserInput	0.00
NO. 3 WING W. B. TANK (S)	209.19	204.09	99.95	1.025	UserInput	0.00
AFT PEAK TANK (P)	0.00	0.00	0.00	1.025	UserInput	100.00
AFT PEAK TANK (S)	0.00	0.00	0.00	1.025	UserInput	100.00
FRESH WATER TANK (P)	99.05	99.05	54.94	1.000	UserInput	50.00

Heel(Deg.)	GZ
-30	-1.06
-25	-0.93
-20	-0.74
-15	-0.52
-10	-0.32
-5	-0.16
0	0.00
5	0.16
10	0.32
15	0.52
20	0.74
25	0.93
30	1.06
35	1.20
40	1.27



Name	Weight	Volume	% Fill	S.G.	FSM Type	FSM
No. 1 CENTRAL TANK	0.00	0.00	0.00	1.630	Actual	0.00
No. 2 CENTRAL TANK	0.00	0.00	0.00	1.630	Actual	0.00
No. 3 CENTRAL TANK	0.00	0.00	0.00	1.630	Actual	0.00
No. 4 CENTRAL TANK	0.00	0.00	0.00	1.630	Actual	0.00
No. 5 CENTRAL TANK	0.00	0.00	0.00	1.630	Actual	0.00
No. 6 CENTRAL TANK	0.00	0.00	0.00	1.630	Actual	0.00
No. 7 CENTRAL TANK	0.00	0.00	0.00	1.630	Actual	0.00
No. 8 CENTRAL TANK	0.00	0.00	0.00	1.630	Actual	0.00
No. 1 SIDE C.T. (P)	0.00	0.00	0.00	1.630	Actual	0.00
No. 1 SIDE C.T. (S)	0.00	0.00	0.00	1.630	Actual	0.00
No. 2 SIDE C.T. (P)	0.00	0.00	0.00	1.630	Actual	0.00
No. 2 SIDE C.T. (S)	0.00	0.00	0.00	1.630	Actual	0.00
No. 3 SIDE C.T. (P)	0.00	0.00	0.00	1.630	Actual	0.00
No. 3 SIDE C.T. (S)	0.00	0.00	0.00	1.630	Actual	0.00
No. 4 SIDE C.T. (P)	0.00	0.00	0.00	1.630	Actual	0.00
No. 4 SIDE C.T. (S)	0.00	0.00	0.00	1.630	Actual	0.00
No. 1 F.O.T.	0.00	0.00	0.00	0.870	Actual	0.00
No. 2 F.O.T. (P)	106.53	122.45	97.18	0.870	Actual	19.99
No. 2 F.O.T. (S)	106.53	122.45	97.18	0.870	Actual	19.99
No. 1 D.O.T.	70.16	80.64	96.01	0.870	Actual	624.16
No. 2 D.O.T. (P)	23.87	27.44	94.61	0.870	Actual	7.59
L.O.S. TANK (C)	4.51	4.88	88.75	0.924	Actual	7.95
L.O. STORAGE T. (S)	0.00	0.00	0.00	0.924	Actual	0.00
L.O. SETTLING T. (P)	13.55	14.67	94.62	0.924	Actual	3.91
CYL.O.STO.T (S)	10.37	11.22	89.78	0.924	Actual	1.36
AFT PEAK TANK	121.40	118.44	97.08	1.025	Actual	722.80
No.2 F.W.T. (S)	30.28	30.28	94.63	1.000	Actual	9.55
FORE PEAK W.B. TANK	0.00	0.00	0.00	1.025	Actual	0.00
No. 1 W.B. TANK (P)	0.00	0.00	0.00	1.025	Actual	0.00

Name	Weight	LCG	VCG	TCG
CREW & EFFECTS	2.000	15.000	12.500	0.000
STORES	6.000	6.000	9.500	0.000

Heel(Deg.)	GZ
0	0.03
5	0.38
10	0.74
15	1.12
20	1.52
25	1.92
30	2.17
35	2.29
40	2.32
45	2.30
50	2.21
55	2.09
60	1.93
65	1.74
70	1.52
75	1.28
80	1.02
85	0.74
90	0.46

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