



Stability Results

Condition: **ONNE FOT ANCHORAGE**

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05-Oct-2021 16:46

Vessel: **Vos Premier, Hull BY-75 Cochin Shipyard**

Voyage:

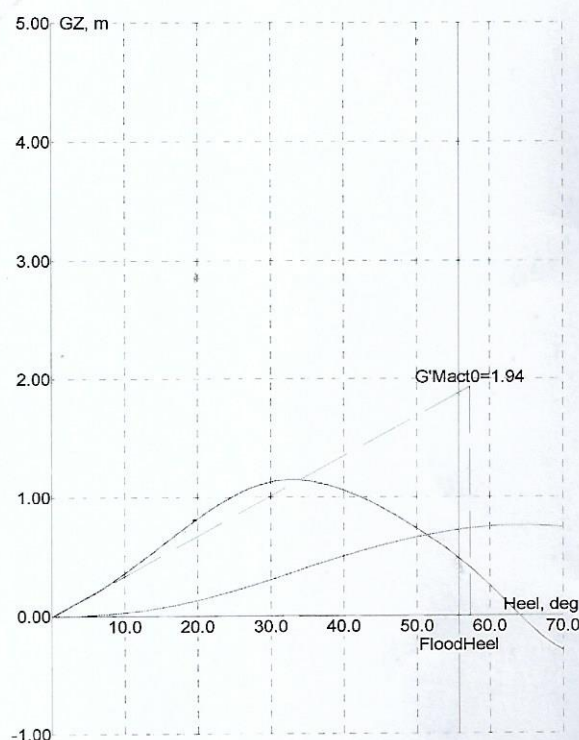
Parameter		Value	Limit
Displacement	[t]	2241.9	
Deadweight	[t]	462.4	
Draft at FP	[m]	3.561	
Draft at midship	[m]	3.066	<= 5.842
Draft at AP	[m]	2.570	
Heel	[deg]	0.1s	<= 2.0
Trim	[m]	0.99f	
G'M actual at zero heel	[m]	1.94	>= 0.15
G'M min.	[m]	1.27	
GM limit predef.		Min GM	
FS cor.	[m]	1.39	
Rolling period	[s]	10.7	
Water density	[t/m3]	1.025	
Propeller immersion	[%]	45	
Weather criterion		2.48	>= 1.00
Wind heel	[deg]	3.6	<= 16.0
Flooding heel	[deg]	55.8	
for flooding point		Supply Bow Thr Rm fr.96	
Max. arm over 30	[m]	1.15	>= 0.20
Max. arm pos.	[deg]	33.0	>= 15.0
Max. arm	[m]	1.15	
Stab. range	[deg]	55.7	
Area 0-30	[m*rad]	0.307	>= 0.055
Area 30-40	[m*rad]	0.196	>= 0.030
Air draft	[m]	49.99	
Windage area (Cargo)	[m2]	35	
Windage VCA (Cargo)	[m]	8.64	
Windage area (Total)	[m2]	724	
Windage VCA (Total)	[m]	8.63	

Stability criteria according to IMO

Selected load line: Summer Ocean Water

Propeller immersion method: Center to Waterline/Diameter

Heel SB deg	Stat m	Dyn m*rad
0.0	-0.00	0.00
2.0	0.06	0.00
5.0	0.16	0.01
10.0	0.36	0.03
20.0	0.82	0.13
30.0	1.13	0.31
40.0	1.06	0.50
50.0	0.74	0.66
60.0	0.25	0.75
70.0	-0.29	0.74





Stress Results

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Condition: **ONNE FOT ANCHORAGE**

05-Oct-2021 16:46

Vessel: **Vos Premier**, Hull BY-75 Cochin Shipyard

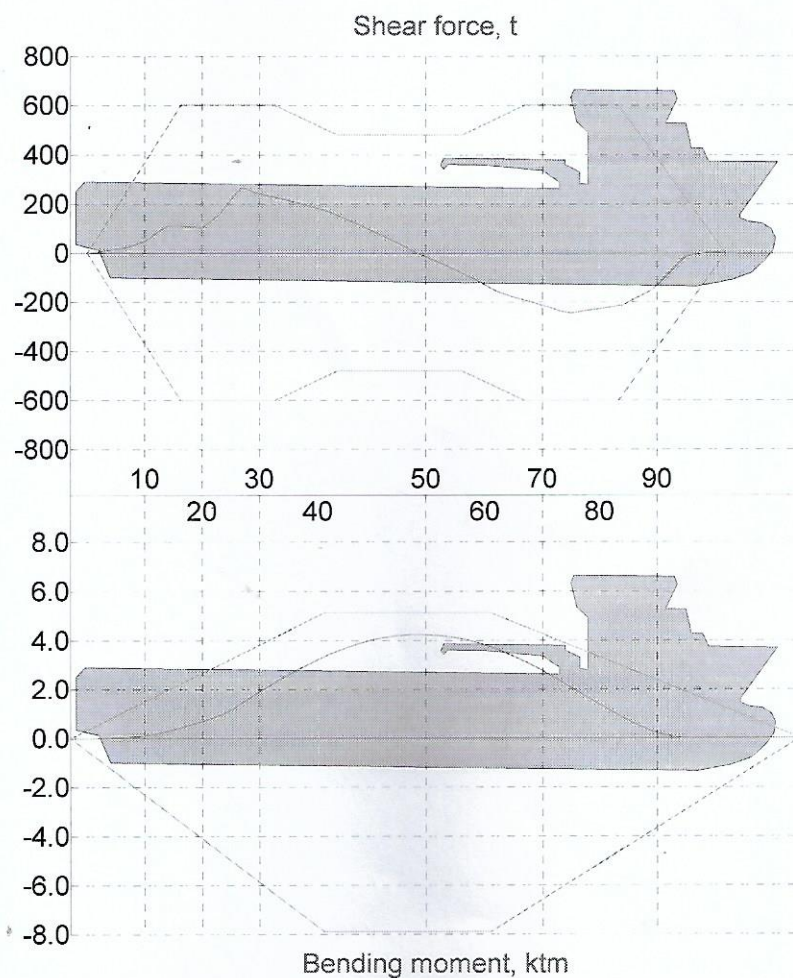
Voyage:

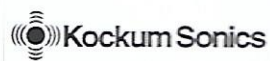
Fr.	Loc m	SF t	SFsea %	SFhar %	BM ktm	BMsea %	BMhar %
10	6.00	48	13.1	13.1	0.12	7.8	7.8
20	12.00	105	17.4	17.4	0.70	26.2	26.1
30	18.00	244	40.5	40.5	1.91	50.0	50.0
40	24.15	183	35.4	35.4	3.23	64.5	64.4
50	35.40	-13	-2.6	-2.6	4.25	82.7	82.7
60	41.60	-129	-24.6	-24.6	3.83	74.5	74.5
70	47.60	-213	-35.3	-35.3	2.77	64.7	64.7
80	53.60	-226	-37.6	-37.6	1.38	41.4	41.3
90	59.60	-129	-33.5	-33.5	0.22	9.3	9.3

Max. SF sea [%] 44.4 at fr. 27
 SF at max.% sea [t] 267
 Max. SF harbour [%] 44.4 at fr. 27
 SF at max.% harbour [t] 267

Max. BM sea [%] 82.8 at fr. 49
 BM at max.% sea [ktm] 4.25
 Max. BM harbour [%] 82.8 at fr. 49
 BM at max.% harbour [ktm] 4.25

Fr.	Loc m	Weight t	Buoy t
10	6.00	66	17
20	12.00	155	98
30	18.00	352	213
40	24.15	215	276
50	35.40	352	548
60	41.60	197	313
70	47.60	208	292
80	53.60	225	238
90	59.60	248	152
Fore		224	94





Tanks

Condition: ONNE FOT ANCHORAGE

Page: 4(10)

05-Oct-2021 16:46

Vessel: Vos Premier, Hull BY-75 Cochin Shipyard

Voyage:

Fuel oil

Tank	Max. Vol. m3	Volume m3	Vol %	Weight t	Density t/m3	LCG m	TCG m	VCG m	FSM tm
T6	156.41	7.30	4.7	6.57	0.9000	47.14	3.38	0.12	96
T7	140.98	38.00	27.0	34.20	0.9000	47.14	-3.75	0.56	130
T8	139.10	28.00	20.1	25.20	0.9000	38.18	3.93	0.26	238
T9	139.10	6.71	4.8	6.04	0.9000	38.18	-3.83	0.06	205
T12	138.79	8.35	6.0	7.52	0.9000	21.73	3.07	0.09	167
T13	138.79	11.88	8.6	10.69	0.9000	21.70	-3.13	0.13	179
T30	41.33	2.99	7.2	2.69	0.9000	43.92	6.36	1.40	7
T31	41.33	0.00	0.0	0.00	0.9000	43.71	-6.48	1.06	0
T53	10.80	5.00	46.3	4.50	0.9000	45.80	6.40	4.77	3
Total	946.63	108.23	11.4	97.41		39.36	0.05	0.55	1025

Base oil

Tank	Max. Vol. m3	Volume m3	Vol %	Weight t	Density t/m3	LCG m	TCG m	VCG m	FSM tm
T10	100.63	0.00	0.0	0.00	0.8300	28.81	3.59	0.00	0
T11	103.81	0.00	0.0	0.00	0.8300	28.85	-3.56	0.00	0
Total	204.44	0.00	0.0	0.00		0.00	0.00	0.00	0

Fresh water

Tank	Max. Vol. m3	Volume m3	Vol %	Weight t	Density t/m3	LCG m	TCG m	VCG m	FSM tm
T2	117.31	35.36	30.1	35.36	1.0000	59.44	1.77	1.55	21
T3	110.52	59.60	53.9	59.60	1.0000	60.13	-2.16	2.48	29
T14	66.12	26.08	39.4	26.08	1.0000	13.93	5.52	1.81	23
T16	33.34	6.59	19.8	6.59	1.0000	7.16	2.62	2.35	23
T17	33.34	4.86	14.6	4.86	1.0000	7.30	-2.50	2.25	16
T18	88.14	8.20	9.3	8.20	1.0000	13.25	-0.04	0.18	38
T27	189.30	154.58	81.7	154.58	1.0000	14.17	0.02	5.13	1123
T27A	171.07	0.00	0.0	0.00	1.0000	10.22	-0.03	3.90	0
T28	112.16	44.32	39.5	44.32	1.0000	7.20	0.00	4.57	819
T29	167.60	0.00	0.0	0.00	1.0000	4.61	0.00	2.88	0
Total	1088.90	339.59	31.2	339.59		25.77	0.25	3.75	2092

Lub.oil

Tank	Max. Vol. m3	Volume m3	Vol %	Weight t	Density t/m3	LCG m	TCG m	VCG m	FSM tm
T32*	11.14	0.00	0.0	0.00	0.9240	46.10	-5.90	4.10	0
T33	3.71	0.00	0.0	0.00	0.9240	47.30	-5.90	4.10	0
T34	3.71	0.00	0.0	0.00	0.9240	47.90	-5.90	4.10	0
T35	3.71	0.00	0.0	0.00	0.9240	48.50	-5.90	4.10	0
T36	3.71	0.00	0.0	0.00	0.9240	49.10	-5.90	4.10	0
Total	25.98	0.00	0.0	0.00		0.00	0.00	0.00	0

**Tanks**Condition: **ONNE FOT ANCHORAGE**Page: **5(10)****05-Oct-2021 16:46**Vessel: **Vos Premier, Hull BY-75 Cochin Shipyard**

Voyage:

Mud

Tank	Max. Vol. m3	Volume m3	Vol %	Weight t	Density t/m3	LCG m	TCG m	VCG m	FSM tm
T19	99.54	0.00	0.0	0.00	2.5000	41.39	4.55	0.00	0
T20	99.54	0.00	0.0	0.00	2.5000	41.39	-4.55	0.00	0
T21	99.80	0.00	0.0	0.00	2.5000	36.65	4.53	0.00	0
T21A	99.80	0.00	0.0	0.00	2.5000	31.65	4.53	0.00	0
T22	99.80	0.00	0.0	0.00	2.5000	36.65	-4.53	0.00	0
T22A	99.80	0.00	0.0	0.00	2.5000	31.65	-4.53	0.00	0
T23	99.80	0.00	0.0	0.00	2.5000	26.65	4.53	0.00	0
T24	99.80	0.00	0.0	0.00	2.5000	26.65	-4.53	0.00	0
T25	99.80	0.00	0.0	0.00	2.5000	21.65	4.53	0.00	0
T26	99.80	0.00	0.0	0.00	2.5000	21.65	-4.53	0.00	0
Total	997.48	0.00	0.0	0.00		0.00	0.00	0.00	0

Cement

Tank	Max. Vol. m3	Volume m3	Vol %	Weight t	Density t/m3	LCG m	TCG m	VCG m	FSM tm
T44	64.02	0.00	0.0	0.00	2.4000	39.15	0.00	1.15	0
T45	64.02	0.00	0.0	0.00	2.4000	34.15	0.00	1.15	0
T45A	64.02	0.00	0.0	0.00	2.4000	29.15	0.00	1.15	0
T46	64.02	0.00	0.0	0.00	2.4000	24.15	0.00	1.15	0
T47	64.02	0.00	0.0	0.00	2.4000	19.20	0.00	1.15	0
Total	320.10	0.00	0.0	0.00		0.00	0.00	0.00	0

Ballast

Tank	Max. Vol. m3	Volume m3	Vol %	Weight t	Density t/m3	LCG m	TCG m	VCG m	FSM tm
T1	133.46	0.00	0.0	0.00	1.0250	66.17	0.00	0.00	0
T4	62.39	0.00	0.0	0.00	1.0250	54.05	1.10	0.00	0
T5	45.43	0.00	0.0	0.00	1.0250	54.06	-1.10	0.00	0
T19	99.54	0.00	0.0	0.00	2.5000	41.39	4.55	0.00	0
T20	99.54	0.00	0.0	0.00	2.5000	41.39	-4.55	0.00	0
T21	99.80	0.00	0.0	0.00	2.5000	36.65	4.53	0.00	0
T21A	99.80	0.00	0.0	0.00	2.5000	31.65	4.53	0.00	0
T22	99.80	0.00	0.0	0.00	2.5000	36.65	-4.53	0.00	0
T22A	99.80	0.00	0.0	0.00	2.5000	31.65	-4.53	0.00	0
T23	99.80	0.00	0.0	0.00	2.5000	26.65	4.53	0.00	0
T24	99.80	0.00	0.0	0.00	2.5000	26.65	-4.53	0.00	0
T25	99.80	0.00	0.0	0.00	2.5000	21.65	4.53	0.00	0
T26	99.80	0.00	0.0	0.00	2.5000	21.65	-4.53	0.00	0
T27A	171.07	0.00	0.0	0.00	1.0000	10.22	-0.03	3.90	0
T29	167.60	0.00	0.0	0.00	1.0000	4.61	0.00	2.88	0
Total	1577.43	0.00	0.0	0.00		0.00	0.00	0.00	0

Miscellaneous

Tank	Max. Vol. m3	Volume m3	Vol %	Weight t	Density t/m3	LCG m	TCG m	VCG m	FSM tm
T37	7.47	0.00	0.0	0.00	1.0000	45.00	-2.38	0.00	0
T38	8.55	0.00	0.0	0.00	1.0000	44.90	-0.79	0.00	0
T39	8.55	0.00	0.0	0.00	1.0000	44.90	0.79	0.00	0
T40	7.47	0.00	0.0	0.00	1.0000	45.00	2.38	0.00	0

**Tanks**Condition: **ONNE FOT ANCHORAGE**Page: **6(10)****05-Oct-2021 16:46**Vessel: **Vos Premier, Hull BY-75 Cochin Shipyard**

Voyage:

Miscellaneous

Tank	Max. Vol. m3	Volume m3	Vol %	Weight t	Density t/m3	LCG m	TCG m	VCG m	FSM tm
T43	16.97	0.00	0.0	0.00	1.0000	53.57	-3.90	1.20	0
T54	36.32	0.00	0.0	0.00	1.0000	33.69	0.00	0.00	0
T55	9.85	0.00	0.0	0.00	1.0000	69.28	0.00	9.60	0
Total	95.18	0.00	0.0	0.00		0.00	0.00	0.00	0

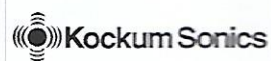
**General Cargo Summary**

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Condition: **ONNE FOT ANCHORAGE****05-Oct-2021 16:46**Vessel: **Vos Premier, Hull BY-75 Cochin Shipyard**

Voyage:

Cargo Space	Amount	Weight (t)	LCG, m	TCG, m	VCG, m
MAINDK	17	25.40	19.91	0.50	8.04
On Deck	17	25.40	19.91	0.50	8.04
Under Deck	0	0.00	0.00	0.00	0.00
Total	17	25.40	19.91	0.50	8.04



Consolidated Report

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Condition: ONNE FOT ANCHORAGE

05-Oct-2021 16:46

Vessel: Vos Premier, Hull BY-75 Cochin Shipyard

Voyage:

Water density [t/m3] 1.025

Item	Weight t	VMom tm	VCG m	LMom tm	LCG m	TMom tm	TCG m	FSM tm
Light ship	1779.5	10433	5.86	65060	36.56	-98	-0.05	0
Corr. moments	0.0	0	0.00	0	0.00	0	0.00	0
Input cargo	25.4	204	8.04	506	19.91	13	0.50	0
Dry stores	0.0	0	0.00	0	0.00	0	0.00	0
Corr. cargo	0.0	0	0.00	0	0.00	0	0.00	0
Fuel oil	97.4	54	0.55	3834	39.36	5	0.05	1025
Base oil	0.0	0	0.00	0	0.00	0	0.00	0
Fresh water	339.6	1274	3.75	8750	25.77	85	0.25	2092
Lub.oil	0.0	0	0.00	0	0.00	0	0.00	0
Mud	0.0	0	0.00	0	0.00	0	0.00	0
Cement	0.0	0	0.00	0	0.00	0	0.00	0
Ballast	0.0	0	0.00	0	0.00	0	0.00	0
Miscellaneous	0.0	0	0.00	0	0.00	0	0.00	0
Deadweight	462.4	1532	3.31	13090	28.31	103	0.22	3117
Total	2241.9	11965	5.34	78150	34.86	5	0.00	3117

Fuel oil

Tank	Max. Vol. m3	Volume m3	Vol %	Weight t	Density t/m3	LCG m	TCG m	VCG m	FSM tm
T6	156.41	7.30	4.7	6.57	0.9000	47.14	3.38	0.12	96
T7	140.98	38.00	27.0	34.20	0.9000	47.14	-3.75	0.56	130
T8	139.10	28.00	20.1	25.20	0.9000	38.18	3.93	0.26	238
T9	139.10	6.71	4.8	6.04	0.9000	38.18	-3.83	0.06	205
T12	138.79	8.35	6.0	7.52	0.9000	21.73	3.07	0.09	167
T13	138.79	11.88	8.6	10.69	0.9000	21.70	-3.13	0.13	179
T30	41.33	2.99	7.2	2.69	0.9000	43.92	6.36	1.40	7
T53	10.80	5.00	46.3	4.50	0.9000	45.80	6.40	4.77	3
Total	905.30	108.23	12.0	97.41		39.36	0.05	0.55	1025

Fresh water

T2	117.31	35.36	30.1	35.36	1.0000	59.44	1.77	1.55	21
T3	110.52	59.60	53.9	59.60	1.0000	60.13	-2.16	2.48	29
T14	66.12	26.08	39.4	26.08	1.0000	13.93	5.52	1.81	23
T16	33.34	6.59	19.8	6.59	1.0000	7.16	2.62	2.35	23
T17	33.34	4.86	14.6	4.86	1.0000	7.30	-2.50	2.25	16
T18	88.14	8.20	9.3	8.20	1.0000	13.25	-0.04	0.18	38
T27	189.30	154.58	81.7	154.58	1.0000	14.17	0.02	5.13	1123
T28	112.16	44.32	39.5	44.32	1.0000	7.20	0.00	4.57	819
Total	750.23	339.59	45.3	339.59		25.77	0.25	3.75	2092

Parameter	Value	Limit
Displacement	[t] 2241.9	
Deadweight	[t] 462.4	
Draft at FP	[m] 3.561	
Draft at midship	[m] 3.066	<= 5.842
Draft at AP	[m] 2.570	
Heel	[deg] 0.1s	<= 2.0
Trim	[m] 0.99f	

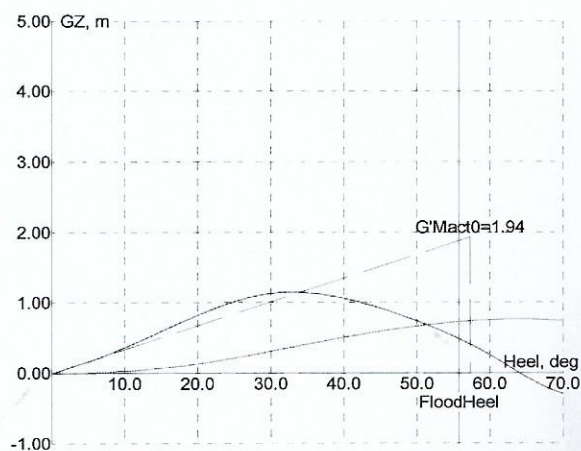
Parameter		Value	Limit
G'M actual at zero heel	[m]	1.94	≥ 0.15
G'M min.	[m]	1.27	
GM limit predef.		Min GM	
FS cor.	[m]	1.39	
Rolling period	[s]	10.7	
Propeller immersion	[%]	45	
Weather criterion		2.48	≥ 1.00
Wind heel	[deg]	3.6	≤ 16.0
Flooding heel	[deg]	55.8	
for flooding point		Supply Bow Thr Rm fr.96	
Max. arm over 30	[m]	1.15	≥ 0.20
Max. arm pos.	[deg]	33.0	≥ 15.0
Max. arm	[m]	1.15	
Stab. range	[deg]	55.7	
Area 0-30	[m*rad]	0.307	≥ 0.055
Area 30-40	[m*rad]	0.196	≥ 0.030
Air draft	[m]	49.99	
Windage area (Cargo)	[m ²]	35	
Windage VCA (Cargo)	[m]	8.64	
Windage area (Total)	[m ²]	724	
Windage VCA (Total)	[m]	8.63	

Stability criteria according to IMO

Selected load line: Summer Ocean Water

Propeller immersion method: Center to Waterline/Diameter

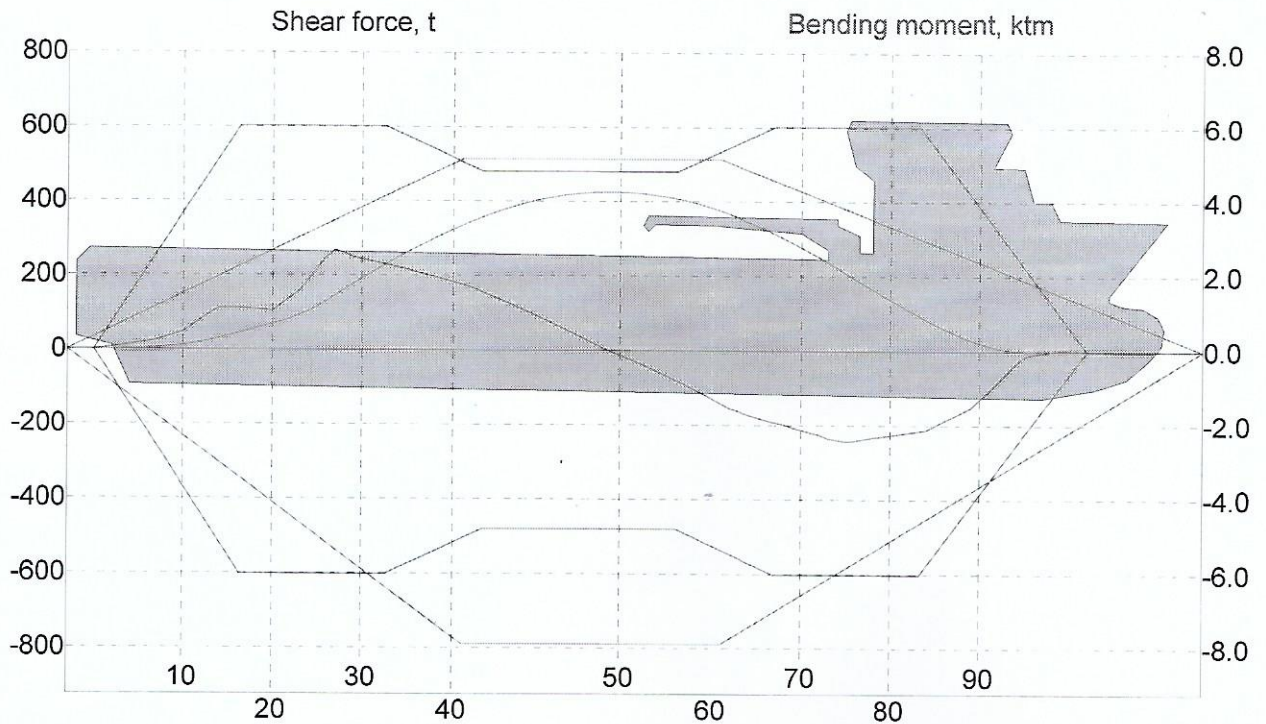
Heel SB deg	Stat m	Dyn m*rad
0.0	-0.00	0.00
2.0	0.06	0.00
5.0	0.16	0.01
10.0	0.36	0.03
20.0	0.82	0.13
30.0	1.13	0.31
40.0	1.06	0.50
50.0	0.74	0.66
60.0	0.25	0.75
70.0	-0.29	0.74



Fr.	Loc m	SF t	SFsea %	SFhar %	BM ktm	BMsea %	BMhar %
10	6.00	48	13.1	13.1	0.12	7.8	7.8
20	12.00	105	17.4	17.4	0.70	26.2	26.1
30	18.00	244	40.5	40.5	1.91	50.0	50.0
40	24.15	183	35.4	35.4	3.23	64.5	64.4
50	35.40	-13	-2.6	-2.6	4.25	82.7	82.7
60	41.60	-129	-24.6	-24.6	3.83	74.5	74.5
70	47.60	-213	-35.3	-35.3	2.77	64.7	64.7
80	53.60	-226	-37.6	-37.6	1.38	41.4	41.3

Fr.	Loc m	SF t	SFsea %	SFhar %	BM ktm	BMsea %	BMhar %
90	59.60	-129	-33.5	-33.5	0.22	9.3	9.3

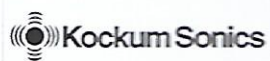
Max. SF sea [%]	44.4	at fr. 27	Max. BM sea [%]	82.8	at fr. 49
SF at max.% sea [t]	267		BM at max.% sea [ktm]	4.25	
Max. SF harbour [%]	44.4	at fr. 27	Max. BM harbour [%]	82.8	at fr. 49
SF at max.% harbour [t]	267		BM at max.% harbour [ktm]	4.25	



TMC PROVIDENCE
PSV DPH
LAGOS
CALL SIGN: 50HM
GRT: 2177 NRT: 1044
BHP: 5450

Master

Cargo mate



Summary

Page: 1(10)

Condition: **ONNE FOT ANCHORAGE**

05-Oct-2021 16:46

Vessel: Vos Premier, Hull BY-75 Cochin Shipyard

Voyage:

Item	Weight t	VMom tm	VCG m	LMom tm	LCG m	TMom tm	TCG m	FSM tm
Light ship	1779.5	10433	5.86	65060	36.56	-98	-0.05	0
Corr. moments	0.0	0	0.00	0	0.00	0	0.00	0
Input cargo	25.4	204	8.04	506	19.91	13	0.50	0
Dry stores	0.0	0	0.00	0	0.00	0	0.00	0
Corr. cargo	0.0	0	0.00	0	0.00	0	0.00	0
Fuel oil	97.4	54	0.55	3834	39.36	5	0.05	1025
Base oil	0.0	0	0.00	0	0.00	0	0.00	0
Fresh water	339.6	1274	3.75	8750	25.77	85	0.25	2092
Lub.oil	0.0	0	0.00	0	0.00	0	0.00	0
Mud	0.0	0	0.00	0	0.00	0	0.00	0
Cement	0.0	0	0.00	0	0.00	0	0.00	0
Ballast	0.0	0	0.00	0	0.00	0	0.00	0
Miscellaneous	0.0	0	0.00	0	0.00	0	0.00	0
Deadweight	462.4	1532	3.31	13090	28.31	103	0.22	3117
Total	2241.9	11965	5.34	78150	34.86	5	0.00	3117

Dry Stores

[illegible]