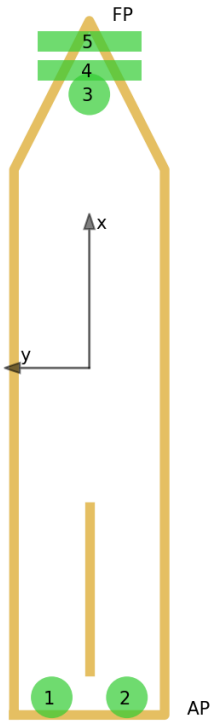
DP report of : Ratownik

DNV Level 1

Hull data

Data	Symbol	Unit	Value
Length between perpendiculars	Lpp	m	86.56
Maximum breadth at waterline	B	m	18.8
Summer load line draft	T	m	5
Longitudinal distance between the fore most and aft most point under water	Los	m	95.85
Longitudinal position of Los/2	XLos	m	-0.13
Half bow angle of enterance	Bow angle	deg	27.4
Water plane area coeffcient behind mishp	CWL_aft	-	1.034
Frontal projected wind area	AF_wind	m2	391.7
Longitudinal projected wind area	AL_wind	m2	1203.3
Longitudinal position of the area center of AL_wind	xL_wind	m	6.014
Longitudinal projected submerged current area	AL_current	m2	440.9
Longitudinal position of the area center of AL_current	xL_current	m	4.717
x position of the skeg aft edge	x skeg	m	-37.8
y position of the skeg aft edge	y skeg	m	0



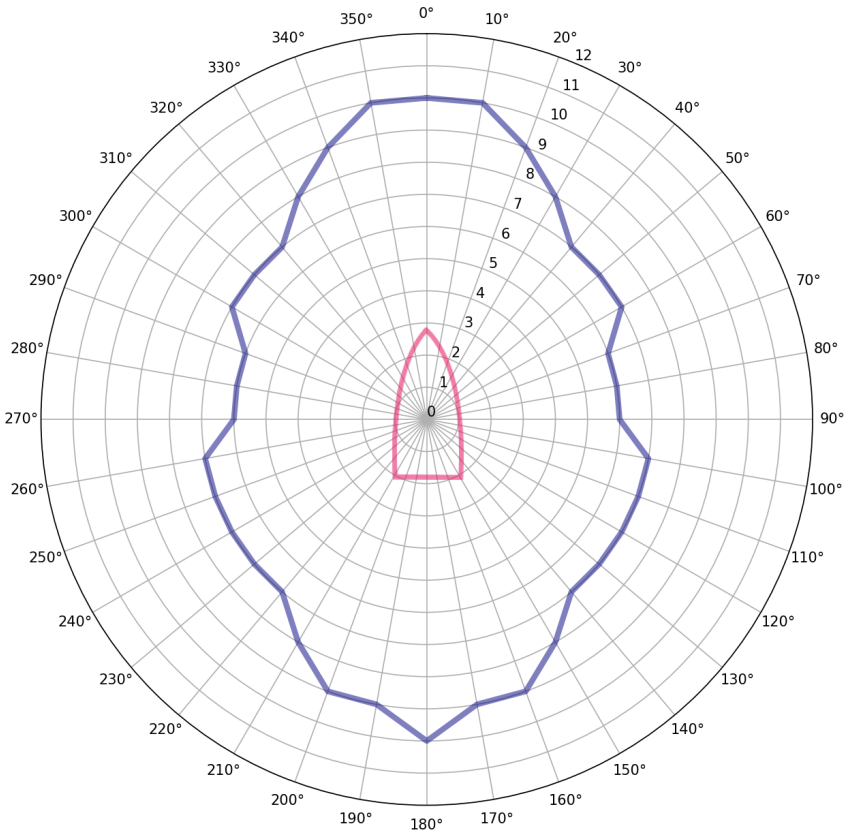
Thrusters data

Thruster No.	1	2	3	4	5
Thruster user name	thr1	thr2	thr3	thr4	thr5
Type	Azimuth without nozzle	Azimuth without nozzle	Azimuth with nozzle	Tunnel thruster	Tunnel thruster
Characteristic	Only forward mode *except tunnel thruster	Only forward mode *except tunnel thruster	Only forward mode *except tunnel thruster	If tunnel thruster - option 1 - broken inlet	If tunnel thruster - option 1 - broken inlet
Rudder type	No rudder	No rudder	No rudder	No rudder	No rudder
x [m]	-41.076	-41.076	34.12	37.12	40.72
y [m]	4.69	-4.69	0	0	0
z [m]	1.54	1.54	-1.1	2	2
D [m]	3.1	3.1	1.65	1.74	1.74
Brake Power [kW]	1325	1325	880	900	900
Type for mech. eff.	tunnel or azimuth	tunnel or azimuth	tunnel or azimuth	tunnel or azimuth	tunnel or azimuth
Rudder surface [m2]	0	0	0	0	0

Forbidden zones: thr 1 : 67 - 113 , thr 2 : 247 - 293 , thr 3 : None , thr 4 : None , thr 5 : None

Results

DP Capability



Angle	DP number	Wind speed [m/s]	Wave height [m]	Peak period [s]	Current speed [m/s]
0	10	28.4	9.5	11.5	0.75
10	10	28.4	9.5	11.5	0.75
20	9	24.4	7.4	10.5	0.75
30	8	20.7	5.7	10.0	0.75
40	7	17.1	4.2	9.0	0.75
50	7	17.1	4.2	9.0	0.75
60	7	17.1	4.2	9.0	0.75
70	6	13.8	3.1	8.5	0.75
80	6	13.8	3.1	8.5	0.75
90	6	13.8	3.1	8.5	0.75
100	7	17.1	4.2	9.0	0.75
110	7	17.1	4.2	9.0	0.75
120	7	17.1	4.2	9.0	0.75
130	7	17.1	4.2	9.0	0.75
140	7	17.1	4.2	9.0	0.75
150	8	20.7	5.7	10.0	0.75
160	9	24.4	7.4	10.5	0.75
170	9	24.4	7.4	10.5	0.75
180	10	28.4	9.5	11.5	0.75
190	9	24.4	7.4	10.5	0.75
200	9	24.4	7.4	10.5	0.75
210	8	20.7	5.7	10.0	0.75
220	7	17.1	4.2	9.0	0.75
230	7	17.1	4.2	9.0	0.75
240	7	17.1	4.2	9.0	0.75
250	7	17.1	4.2	9.0	0.75
260	7	17.1	4.2	9.0	0.75
270	6	13.8	3.1	8.5	0.75
280	6	13.8	3.1	8.5	0.75
290	6	13.8	3.1	8.5	0.75
300	7	17.1	4.2	9.0	0.75
310	7	17.1	4.2	9.0	0.75
320	7	17.1	4.2	9.0	0.75
330	8	20.7	5.7	10.0	0.75
340	9	24.4	7.4	10.5	0.75
350	10	28.4	9.5	11.5	0.75
360	10	28.4	9.5	11.5	0.75