Project no	P-21525	Blade no	2530 /

Engine type	10L32/44CR	**Max engine power kW**	6000
Gear type	Flender	**Max engine speed rpm**	750
Hub type	VBS MK5	**Max prop. speed rpm**	97.6
Shaft generator	Var. speed	**Max gen. power kW**	
Boost	Yes	**Max boost power kW**	2300

Propulsor type	Single screw	**Direction of rotation**	Left
Propeller type	CPP	**Blade type**	Conventional
Nozzle type	Non	**Nozzle L/D ratio**	

Diameter mm	6400	**Hub diameter mm**	1260
Area ratio -	0.475	**Number of blades -**	4
Light running (FPP) %		**Blade material**	MA5X

Blade drawing left	2234287-3	**Blade drawing right**	

Model basin report: Final report 35094-3-DTDWB_SECURED

Remarks:

MAN Diesel & Turbo	**Date**	13/06-23	**Ref**	cla

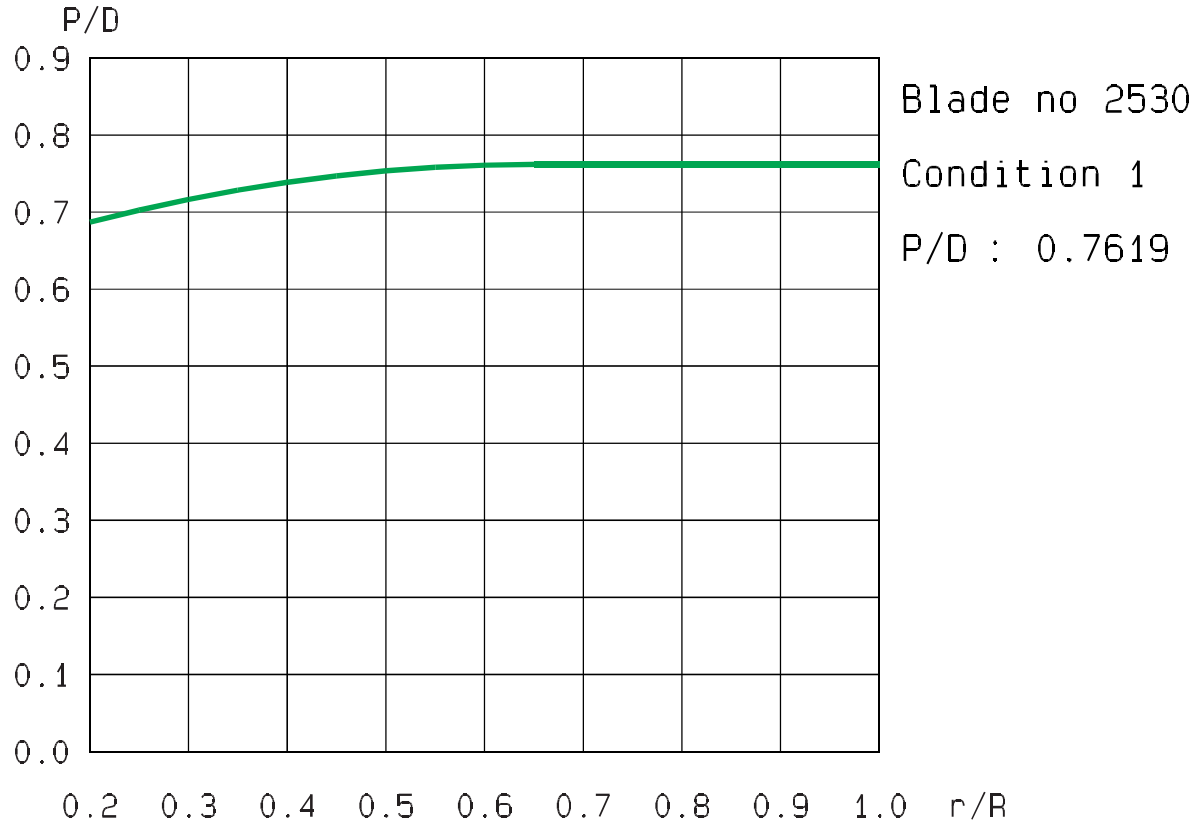
Cond 1	**DESIGN INPUT DATA**		
Propeller diameter	6400 mm	Hub designation	VBS1260 -
Expanded area ratio	0.475 -	Mk. designation	5 -
Number of blades	4 -	Hub diameter	1260 mm
Location of max chord	0.80 -	Blade flange diameter	738 mm
Propeller type	Open -	Type of planform	Hyper. -
Design P/D at r/R=0.7	.7619 -	Skew angle	24.0 Deg
Profile type	NACA16 -	Forward skew angle	8.0 Deg
Mean line type	a=.8 -	Max thick. at r/R=0.35	180.0 mm
Number of radiel stations	19 -	Max thick. at r/R=0.60	109.0 mm
Thickness potens factor	2.00 -	Max thick. at r/R=1.00	25.0 mm

	OPERATING INPUT DATA		
Ship speed	13.00 Kn.	Density of water	1025.5 kg/m3
Propeller revolutions	87.90 Rpm	Press. at water surf.	1.01325 Bar
Operating P/D at r/R=0.7	.7619 -	Vapour pressure	0.01704 Bar
Weighted mean pitch	4832.5 mm	Kin.visc. of water	1.191E-6 m2/s
Immersion of prop. shaft	7800 mm	No of propeller pos.	3 -
No of trailing vorticies	15 -		

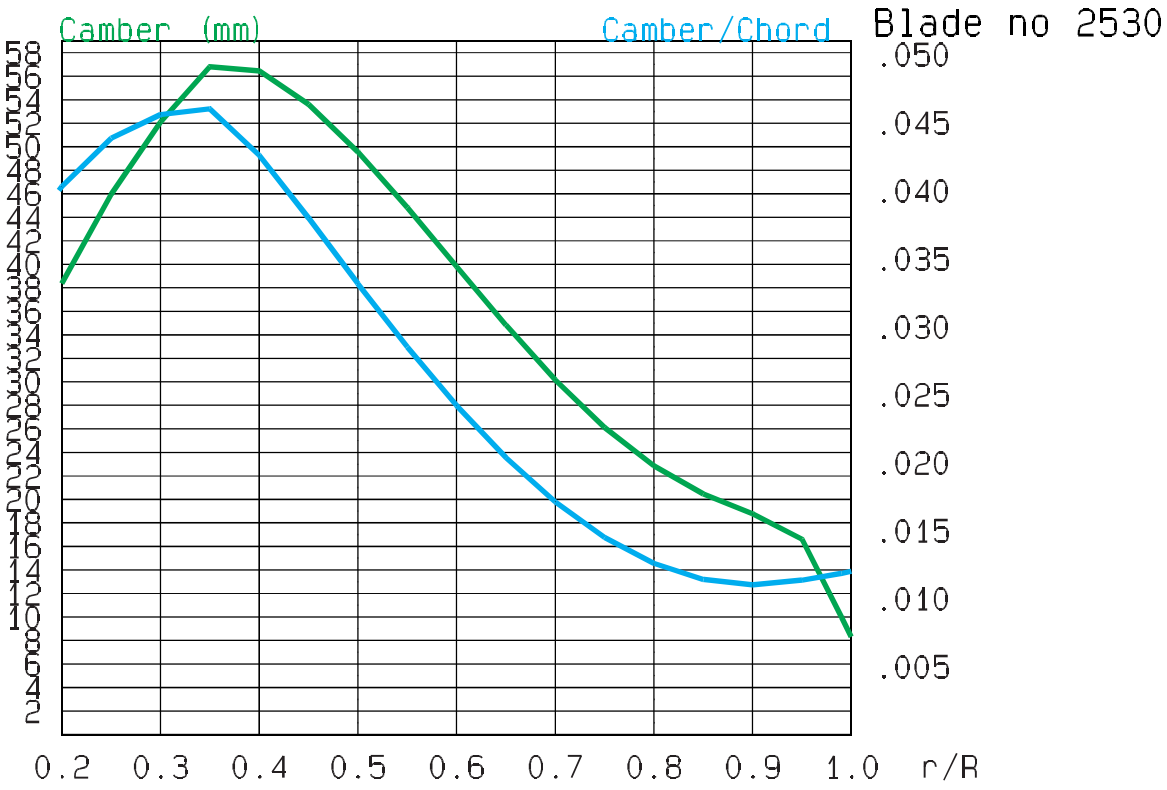
GEOMETRICAL INPUT DATA

r/R [-]	Pitch [mm]	Camber [mm]	Tmax [mm]	Chord [mm]	Skew [mm]	Rake [mm]	T/C [%]	C/C [%]
.197	4388.4	37.8	241.8	946.2	78.9	0.0	25.6	4.0
.200	4395.1	38.4	240.4	952.2	77.0	0.0	25.2	4.0
.250	4496.0	46.0	218.8	1048.3	42.1	.7	20.9	4.4
.300	4585.1	52.1	198.6	1142.7	1.3	1.2	17.4	4.6
.350	4662.2	56.8	180.0	1235.1	-41.6	1.6	14.6	4.6
.400	4727.5	56.5	162.8	1324.9	-82.8	2.0	12.3	4.3
.450	4781.0	53.6	147.2	1411.8	-118.3	2.2	10.4	3.8
.500	4822.5	49.6	133.0	1494.9	-144.3	2.4	8.9	3.3
.550	4852.2	44.8	120.2	1573.3	-156.9	2.6	7.6	2.8
.600	4870.0	39.8	109.0	1645.6	-152.3	2.6	6.6	2.4
.650	4876.0	34.8	98.5	1710.0	-126.4	2.7	5.8	2.0
.700	4876.0	30.2	88.0	1763.6	-75.6	2.2	5.0	1.7
.750	4876.0	26.1	77.5	1801.8	4.2	-.5	4.3	1.4
.800	4876.0	22.9	67.0	1817.1	116.8	-6.9	3.7	1.3
.850	4876.0	20.5	56.5	1795.4	266.0	-18.2	3.1	1.1
.900	4876.0	18.8	46.0	1706.6	455.8	-35.4	2.7	1.1
.950	4876.0	16.6	35.5	1463.7	690.0	-59.4	2.4	1.1
.990	4876.0	10.0	27.1	841.0	911.9	-84.2	3.2	1.2
1.000	4876.0	8.3	25.0	0.0	972.5	-91.2		

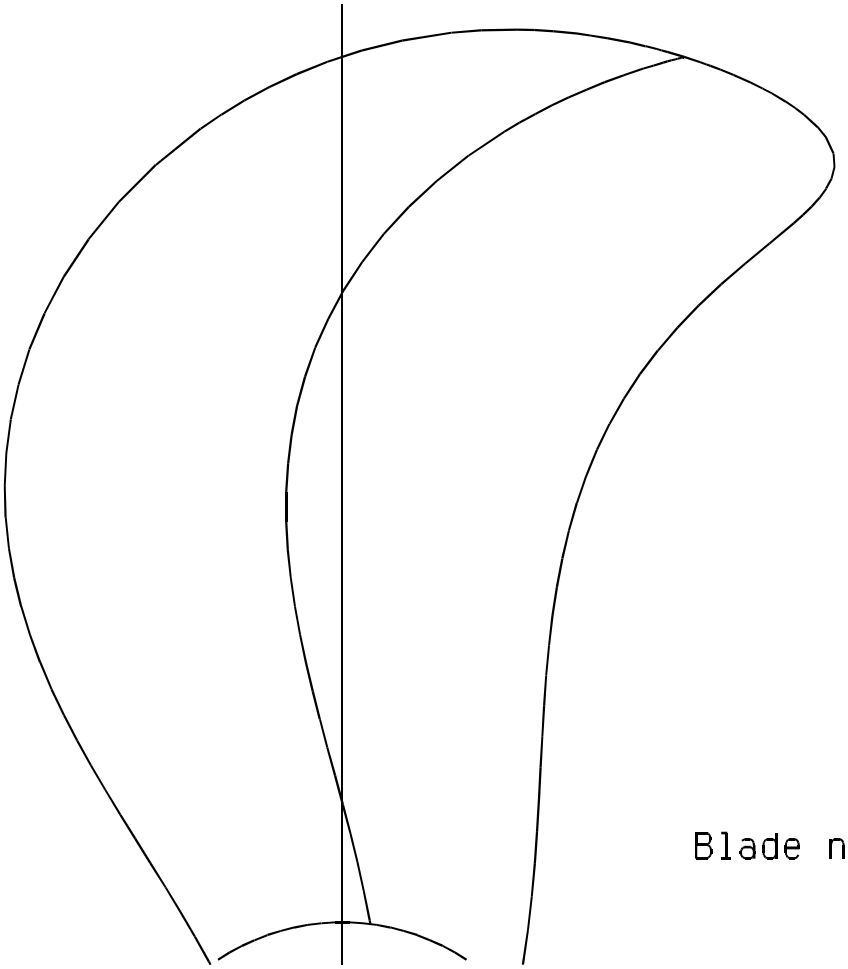
PITCH DISTRIBUTION



CAMBER DISTRIBUTION



BLADE OUTLINE



Blade no 2530