

PROPELLER TEST

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BOAT DATA:

Bavaria 42 Cruiser

L.O.A. 11.40 meter

Depl. 9.2 ton

ENGINE DATA:

Volvo Penta D2-55

55 HP @ 3000 rpm

130S / 2.19:1

TEST PROPELLERS:

3 Blade Volvo fixed propeller 18 x 15 LHS

3 Blade Gori propeller 20 x 13 LHS

COMMENTS:

Speed measured by GPS

Engine rpm checked with tachometer on fly wheel, with a +/- 20 rpm, compared to engine tachometer.

TEST DATE & PLACE:

June 11th 2008 Egaa Denmark

TEST CONDITION:

Cloudy, 16 degrees Celsius, windy 5 – 6 m/sec.

TEST RESULT NOTES:

Compared to the Volvo propeller, the rudder is almost neutral when in reverse with the Gori propeller (No prop walk)

Maximum rpm with the Gori propeller in Overdrive was 2408,

Crash stop time, from full speed ahead 10 seconds with the 3 blade Gori propeller. 12 seconds with the fixed 3 blade propeller

PARTICIPANTS:

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Sune Ehrenskjöld, Gori propellers a/s
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TEST DATA:

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Bavaria 42 Cruiser with Volvo Penta D2-55 Saildrive.

3 blade Volvo Fixed propeller 18 x 15 LHS

3 blade Gori folding propeller 20 x 13 LHS

Engine Rpm.	Volvo propeller:	Gori normal:	Gori Overdrive:
1000 Rpm +/- 20	.		
1200			
1400	5.5		6.6
1600	6.2		7.15
1800	6.75	6.35	7.9
2000	7.3	6.85	8.2
2200	7.7	7.5	
2400	7.95	7.65	
2600	8.05	7.9	
2800	8.35	8.16	
3000	8.4		
2943 Max.	8.4		
2962 Max.		8.16	

Stop length Volvo propeller 1,25 boat length 12 sec.

Stop length Gori propeller 1.0 boat length 10 sec.