

PROPELLER TEST

Page (1)

BOAT DATA:

Bavaria 44 Vision, Hull # 270181

L.O.A. 13.70 meter

Depl. 10.5 ton

ENGINE DATA:

Volvo Penta D2-55

55 HP @ 3000 rpm

130S / 2.19:1

TEST PROPELLERS:

3 Blade Volvo folding 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:

September 13th 2007 in Oslo Norway

TEST CONDITION:

Sunny, 18 degrees Celsius, calm winds 1 – 2 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, with noise and vibration starting at 2000 rpm.

Crash stop time, from full speed ahead (8.5 knots) was almost ½ with the Gori propeller compared to the Volvo propeller. 8.7 sec versa 15.7 sec.

PARTICIPANTS:

Lars Østergaard, Gori propeller a/s

Runar Jensen, Sleipner Motor a/s

Sjur Klafstad, Lunde Båt a/s

Haldor Holm, Lunde Båt a/s

TEST DATA:

Bavaria 44 Vision with Volvo Penta D2-55 Saildrive.

3 blade Volvo Foldingpropeller 18 x 15 LHS

3 blade Gori propeller 20 x 13 LHS

Engine Rpm.	Volvo propeller:	Gori normal:	Gori Overdrive:
1000 Rpm +/- 20	3.3 Kn.	4.0 Kn.	4.4 Kn.
1200	4.2	4.5	5.3
1400	4.8	5.2	6.1
1600	5.4	5.9	6.8
1800	5.9	6.5	7.6
2000	6.5	6.9	8.1
2200	7.0	7.5	8.3
2400	7.5	7.9	8.4
2600	7.9	8.1	N/A
2800	8.2	8.4	N/A
3000	8.4		
3052 Max.	8.6		
2962 Max.		8.6	
2408 Max.			8.4

Stop length Volvo propeller 2.0 boat length 15.7 sec.

Stop length Gori propeller 1.0 boat length 8.7 sec.