

PROPELLER TEST

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BOAT DATA:

Bavaria 37

L.W.L. 10.25 meter

Depl. 7.0 Ton

ENGINE DATA:

Volvo Penta D1-30/130S

29 HP @ 3200 rpm

Gear ratio 2.19:1

TEST PROPELLER:

(1) 3 Blade Gori propeller 16.5 x 11 LHS Single Pitch (SP)

COMMENTS:

Speed measured by GPS

Engine rpm checked with tachometer on engine fly wheel, with a +/- 30 rpm compared to engine tachometer.

TEST DATE & PLACE:

October 12th , 2017 Egaa , Denmark

TEST CONDITION:

Cloudy, 10/11 degrees Celsius, Gusty winds 4 - 8 m/sec. low current (+/- 0.5 knots)

TEST RESULT NOTES:

In reverse, the Gori propeller is almost neutral on the rudder (No prop walk)

Two test runs done with each side of blade being the leading edge. Numbers are average of the two runs (1 to 1.7 knots speed difference, up and down wind)

PARTICIPANTS:

Peter Dahlsgaard, Dansk Marine Center a/s

Lars Oestergaard, Gori propeller Aps.

TEST DATA:

Bavaria 37 Cruiser, equipped with Volvo Penta D1-30/SD

(1) 3 blade Gori propeller 16.5 x 11 LHS (SP) Curved edge

(2) 3 blade Gori propeller 16.5 x 11 LHS (SP) Straight edge

Engine Rpm.	(1)	(2)
1200	N/A	N/A
1400	3.2 Kn / 1419 Rpm.	3.2 kn / 1385 Rpm
1600	3,6 Kn / 1606 Rpm	3.5 kn / 1607 Rpm
1800	4.1 kn / 1807 Rpm	3.8 kn / 1790 Rpm
2000	4.7 kn / 2009 Rpm	4.5 kn / 2026 Rpm
2200	5.2 kn / 2218 Rpm	4.9 kn / 2229 Rpm
2400	5.6 kn / 2433 Rpm	5.5 kn / 2411 Rpm
2600	5.9 kn / 2626 Rpm	5.8 kn / 2593 Rpm
2800	6.4 kn / 2810 Rpm	6.2 kn / 2815 Rpm
3000	6.8 kn / 3015 Rpm	6.7 kn / 3044 Rpm
3200	7.3 kn / 3224 Rpm	7.3 kn / 3210 Rpm

3285 Max. 7.4 kn.

3275 Max. 7.6 kn.

Stop length Up wind 8.2 sec.

Stop length Down wind 9.0 sec

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