

## PROPELLER TEST

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### BOAT DATA:

Jeanneau 39i Performance

L.W.L. 10.71 meter

Depl. 7.5 Ton

### ENGINE DATA:

Yanmar 3JH4

39 HP @ 3000 rpm

Gear ratio 2.36:1

### TEST PROPELLERS:

- (1) 3 Blade fixed propeller France helice 17 x 13 RH
- (2) 3 Blade Gori propeller 18 x 13 RH

### COMMENTS:

Speed measured by GPS

Engine rpm checked with tachometer on propeller shaft, with a +/- 10 rpm compared to engine tachometer.

### TEST DATE & PLACE:

June 16<sup>th</sup>. 2009, Stockholm, Sweden

### TEST CONDITION:

Sunny, 17 degrees, clear skies, steady winds 5 - 6 m/sec.

### TEST RESULT NOTES:

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

Folding propeller is slightly faster in stopping the boat.

### PARTICIPANTS:

Michael Wood, "Yacht"

Elias Johansson, "Båtnytt"

Mats Nylander, Syd Ost Marin

Sune Ehrenskjöld, Gori propeller a/s

Lars Østergaard, Gori propeller a/s

**TEST DATA:**

## Jeanneau 39i Performance with Yanmar 3JH4E

- (1) 3 blade fixed propeller, France Helice 17 x 13 RH
- (2) 3 blade Gori folding propeller 18 x 13 RH
- (3) 3 blade Gori folding propeller 18 x 13 RH in Overdrive.

Engine rpm +/- 30	(1) / Rpm	(2) / Rpm	(3) / Rpm
1800	5.9 kn./ 773	5.7 kn./ 758	6.2 kn./ 753
2000	6.4 kn./ 844	6.0 kn./ 842	6.9 kn./ 845
2200	6.8 kn./ 933	6.6 kn./ 934	7.4 kn./ 927
2400	7.2 kn./1009	6.8 kn./1010	7.8 kn./1011
2600	7.5 kn./1093	7.2 kn./1092	8.2 kn./1094
2800	7.7 kn./1173	7.5 kn./1175	N/A
3000	8.1 kn./1273	7.8 kn./1270	N/A
3160 Max.	8.2 kn./1339		
3167 Max.		7.9 kn./1342	
2626 Max			8.2 kn./1113

Stop length 3 blade fixed propeller 1.50 Boat length 13.8 sec.

Stop length 3 blade Gori propeller 1.50 Boat length 12.0 sec.

**NOISE LEVEL @ 7 KNOT BOAT SPEED**

Fixed propeller:	73 Db/Salon	79 Db/Cockpit
Gori propeller (N):	73 Db/Salon	74 Db/Cockpit
Gori propeller (OD):	72 Db/Salon	72 Db/Cockpit