

# Generation 12 DLX - Performance Report

Test Date: 04/07/2023

## BOAT SPECS

Boat Model	Generation 12 DLX
LOA	12'
Beam	6'3"
Dry Weight	405 lbs
Weight as Tested	1560 lbs
Max Motor	50 HP
Max Persons	6
Fuel Capacity	14 gal *
Water Capacity	5 gal**
*Fuel Tank Volume (Fuel Tank Capacity)	
**Shower Run Time (Sec's)	150s

## MOTOR

Motor Tested	Honda BF50
Engine Height	#2 Hole Position
Anti-Vent. Plate	Even w. Bottom
Propeller	3 x 11.1 x 13 13P 3 x 11 x 17 14P

## TEST CONDITIONS

Number of People	1 to 6
Temp. Air/Water	31 C - 88 F
Elevation	1640 ft ASL
Wind	1,86 mph East
Water	Lake

## COMMENTS

Test weight includes 90% full tank of fuel, one battery, safety and test equipment, ladder, rod holders, fresh water shower (4,5 gals), stereo, 7" Simrad installed, VHF radio.

## PERFORMANCE DATA

### With Doel Fin Wing Installed

Seconds to Plane: 4,20  
Max Speed MPH: 32,7

RPM	3 x 11 x 17 14P			Est Range Miles	
	MPH	MPG	GPH		
1000	3.8	12.7	0.4	171	
2000	5.2	8.0	0.7	108	
2500	6	6.1	1.0	82	
3000	7.5	5.0	1.5	68	
<b>3200</b>	<b>13.4</b>	<b>10.0</b>	<b>1.2</b>	<b>135</b>	<b>PLANING SPEED</b>
3500	17	10.7	1.4	144	
4000	22.9	11.9	1.9	161	TRIM UP TO 35%
4500	25.4	11.3	2.2	153	TRIM 40%
5000	24.8	9.5	3.0	128	TRIM 40%
5500	32.2	8.1	4.0	109	TRIM 45%
6000	32.7	6.0	4.8	81	TRIM 60%

GENERATION 12 DLX		Honda BF50 - 14P Prop*			
Passengers	Seconds to Plane	Max Speed MPH	Fuel Consumption GPH	PASSENGERS WEIGHT	
1	4.90	32.50	4.30	96 KG (21,1 Lb)	
2	10.00	31.50	4.10	158 KG (34,8 Lb)	
3	11.00	29.70	4.00	228 KG (50,2 Lb)	
4	12.00	28.70	4.00	311 KG (68,5 Lb)	
5	29.00	27.00	3.80	406 KG (89,5 Lb)	
6	-	7.20	2.20	486 KG (107,1 Lb)	

GENERATION 12 DLX		Honda BF50 - 13P Prop*			
Passengers	Seconds to Plane	Max Speed MPH	Fuel Consumption GPH	PASSENGERS WEIGHT	
1	4.00	32.50	4.50	96 KG (21,1 Lb)	
2	6.90	32.00	4.40	158 KG (34,8 Lb)	
3	7.00	30.00	4.40	228 KG (50,2 Lb)	
4	6.90	29.10	4.50	311 KG (68,5 Lb)	
5	10.60	27.50	4.40	406 KG (89,5 Lb)	
6	31.00	25.20	4.20	486 KG (107,1 Lb)	

## Rigging Recommendations

Based on performance testing we can make the following recommendations for rigging a Venture 13 with a Honda 60HP LS

### Engine Height

Used the second hole up.

### Propeller Selection

Use a 13 or 14 pitch prop depending on the most common number of passengers and use.

For most common use with 1-2 passengers we recommend a 14 pitch prop.

When planing with maximum people on board, or when used for tow sports (Water skiing/Tubing), we recommend a 13 pitch prop.

### Use of a Wing Installed on Motor

The Doel Fin is a relatively small wing compared with other wings available on the market; therefore, results/behavior with other wings may be greater.

The Doel Fin was chosen as it does not extend past the cavitation plate therefore not increasing the LOA of the Generation 12 when in storage.

The difference in performance speed and planing ability with and without the wing are small.

The most significant difference in performance with vs without a wing is in how the boat behaved in chop.

With a wing installed the boat can be driven with the bow lower with the trim completely down. This resulted in a smoother, more comfortable ride in chop.

Therefore, we would recommend the use of a wing when the boat is used in consistently rough or ocean conditions.

## NOTICE

The data and results in this report will vary with conditions and are intended as a reference only. Performance is likely to vary depending on various factors such as but not limited to water conditions, rigging or loading. Walker Bay can not guarantee that your boat will perform the same. Information in this report is subject to change without notice. Always drive safely and take care of your passengers and others on or in the water.