

Tiara 53 Flybridge

CAT C12.9 1000HP w/ZF510-1A1



PERFORMANCE REPORT

Date tested: 12/19/2017 Test Engineers: Mike Ward, Jeff Zita

Hull Number: SSUXC013I718
 Location: ICW Fort Pierce
 Weather: Sunny, wind NW at 0-5, Seas less than 1'
 Water / Air Temp: 74 / 80

Propeller: ø30" X 42"
 Gears/Gear Ratio: 2.000:1
 Fuel Capacity: 700
 Fuel/Water/Waste: 100%/100%/100%
 People on Board: 4
 Gear on Board: 1100 lbs Includes people and gear

PERFORMANCE SUMMARY:	
Acceleration:	15sec. to 2000 RPM (32.3 smph) / 18sec. to 2100 RPM (35.3 smph)
Optimum Cruise Speed:	32.3 mph @ 2000 RPM / 35.3mph @ 2100 RPM
Range at Optimum Cruise:	298 / 286 Statute Miles

RPM	MPH	Knots	GPH	Statute MPG	Nautical MPG	Bridge dB,A	Trim Angle (degrees)	Estimated Range (Statute Miles)	Estimated Range (Nautical Miles)
550	7.6	6.6	2.7	2.87	2.50	65	0.0	1810	1572
700	8.8	7.6	5.0	1.78	1.54	64	0.0	1120	973
800	9.7	8.4	7.1	1.37	1.19	68	0.0	863	750
1000	10.6	9.2	14.5	0.73	0.64	68	2.0	461	401
1200	11.5	10.0	23.9	0.48	0.42	68	4.0	302	263
1400	18.1	15.7	31.6	0.57	0.50	70	5.0	361	314
1600	22.5	19.5	42.9	0.52	0.46	72	5.0	331	287
1800	28.1	24.4	55.3	0.51	0.44	73	5.0	320	278
2000	32.3	28.1	68.3	0.47	0.41	73	5.0	298	259
2100	35.3	30.7	77.8	0.45	0.39	73	5.0	286	249
2200	37.5	32.6	87.1	0.43	0.37	75	4.5	271	236
2300	39.1	34.0	95.8	0.41	0.35	74	4.5	257	223
2338	39.8	34.6	99.7	0.40	0.35	75	4.5	252	219

This boat has passed the ABYC Quick Turn Test H-26.8.3.1 at WOT.

Note:
 Speed determined by GPS, GPH based on the total usage of the engines. MPG computed from MPH and GPH figures shown.
 Range based on calculated MPG and 90% of total fuel capacity. The performance data shown above should be considered valid only for the specific boat whose serial number is shown and on the date this test was performed.
 Many factors may affect actual performance obtained on this boat or on similar boats. These include but are not limited to, installation of certain options such as tuna towers, hard tops, vessel loading and trim, weather and sea conditions, engine and boat condition, propeller condition, water temperature, altitude, manufacturing tolerances, etc. Tiara Yachts make no guarantees whatsoever that this performance will be repeated on this boat at a later date or at any time on a similarly equipped boat.