

Tiara 53 Coupe

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



PERFORMANCE REPORT

Date tested: 8/13/2018 Test Engineer(s): Jeff Zita

Hull Number: XA049
 Location: Atlantic Ocean Fort Pierce
 Weather: Sunny, wind SW at 0-10, Seas less than 1'
 Water / Air Temp: 80 / 90

Propeller: ø30" X 43"
 Gears/Gear Ratio: 2.000:1
 Fuel Capacity: 700
 Fuel/Water/Waste: 100%/100%/100%
 People on Board: 2
 Gear on Board: 100 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	Helm dB,A	Trim Angle (degrees)	Estimated Range (Statute Miles)	Estimated Range (Nautical Miles)
550	8.0	7.0	2.6	3.09	2.68	68	0.0	1947	1691
700	9.0	7.8	4.8	1.88	1.63	69	0.0	1184	1029
800	10.2	8.9	7.4	1.39	1.21	68	0.5	875	760
1000	12.2	10.6	13.3	0.92	0.80	70	1.0	578	502
1200	13.5	11.7	22.1	0.61	0.53	71	3.0	384	334
1400	17.4	15.1	32.3	0.54	0.47	74	4.5	340	295
1600	22.5	19.5	42.9	0.52	0.46	75	5.0	330	287
1800	27.3	23.7	55.8	0.49	0.42	78	6.0	308	268
2000	32.8	28.5	69.3	0.47	0.41	79	5.0	298	259
2100	34.9	30.3	77.9	0.45	0.39	79	5.3	283	246
2200	36.7	31.8	84.8	0.43	0.38	80	5.0	272	237
2300	38.9	33.8	95.6	0.41	0.35	81	5.0	256	223
2350	39.9	34.69	100.0	0.40	0.35	81	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.

Walking along the dock at the break of dawn, the Tiara 53 Coupe is very prominent as her long shadow cast over the surrounding vessels. From the moment you board this exquisite vessel, the well thought out design allows you to seamlessly socialize with the friends and family you invite aboard. Although having similar aesthetics as the Volvo engine package, the twin CAT C12.9, 1000HP, supercharged, dual turbo, inboard engines gives you a feeling like none other when taking helm. Casting off your lines, be sure to switch the controls into joystick mode, which algorithmically integrates your twin inboard engines with the equipped bow thruster. This advanced system makes docking no more stressful than a sunset walk down the beach. Making your way to the open seas, it is easy to forget the true power the C53 really has to offer. Peacefully enjoying the unobstructed view of the horizon at the helm, you will quickly find that the inboard CAT engines offer an exhilarating ride, topping out at speeds near 40mph, while still maintaining the intimate atmosphere that can only be experienced aboard the Tiara C53!