

# 5200 Express - Diesel CAT 3406E (800 HP)



## PERFORMANCE REPORT

Date tested: 11/13/1998 Test Engineer: Adam Rolinski

Hull Number: SSUM5001B899  
 Location: Ft. Lauderdale, FL  
 Weather: 10 knots out of East, 2-3' rollers from East  
 Water / Air Temp: 80 / 83

Propeller: 32x40-3 blade Nibral Federal #4 cup  
 Gear Ratio: Twin Disc 1.98:1  
 Fuel Capacity: 700 gallons  
 Fuel/Water/Waste: 100%/100%/0%  
 People on Board: 4 people  
 Gear on Board: Approximately 200 lbs.

<b>PERFORMANCE:</b>	
Acceleration:	550 to 2100 RPM = 17.5 sec.
Optimum Cruise Speed:	28.0 / 33.5 MPH
Range at Optimum Cruise:	357/326 statute miles

RPM	MPH	Knots	GPH	MPG	dB,A	Trim Angle	Estimated Range (Statue Miles)
550	7.1	6.1	3.1	2.26	70	0.0	1422
1000	11.7	10.1	11.4	1.03	73	2.4	646
1300	15.1	13.1	25.6	0.59	78	4.7	372
1600	23.4	20.4	39.4	0.59	79	4.8	375
1800	28.0	24.3	49.3	0.57	81	5.5	357
1900	29.6	25.7	54.9	0.54	82	5.9	339
2000	31.7	27.5	59.4	0.53	83	6.0	336
2100	33.5	29.1	64.9	0.52	84	5.7	326
2200	35.3	30.7	70.5	0.50	85	5.4	316
2315 P	37.2	32.3	79.6	0.47	86	4.9	295
2304 S							

**Comments:** Boat equipped with hardtop and side enclosures.  
 All data is the average of two direction runs (East & West)  
 Tiara Tender w/ Yamaha 15 h.p. outboard on swim platform.

**Note:**

Speed determined by GPS, GPH based on the total usage for 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.  
 Horsepower ratings are determined using the Society of Automotive Engineers (SAE) method of calibration.