

Tiara 39

Twin Cummins® QSC8.3 Diesels, 550hp



PERFORMANCE REPORT

Date tested: 10/15/2008 Test Engineer: Mike Ward & Adam Rolinski

Hull Number: SSURA004G809
 Location: Lake Michigan, Holland, MI
 Weather: Wind S-SW @ 5 mph with 1 ft. rollers
 Water / Air Temp: 58 / 66

Propeller: MWC EQX 24 x 33 x 4
 Gear Ratio: ZF 305 AE 2.179 : 1
 Fuel Capacity: 535 gallons
 Fuel/Water/Waste: 100%/100%/100%
 People on Board: 3 people
 Gear on Board: 632 lbs (includes people and test equipment)

PERFORMANCE:
 Acceleration: 13.4 seconds to 2600 RPM (28.9 smph) / 16.9 seconds to 2800 RPM (32.6 smph)
 Optimum Cruise Speed: 28.9 mph @ 2600 RPM / 32.6 mph @ 2800 RPM
 Range at Optimum Cruise: 350 / 349 Statute Miles
This boat has passed the ABYC Quick Turn Test H-26.8.3.1 at WOT.

RPM	MPH	Knots	GPH	SMPG	NMPG	dB,A	Trim Angle (degrees)	Estimated Range (Statute Miles)	Estimated Range (Nautical Miles)
600	5.5	4.8	1.0	5.52	4.79	66	0.0	2656	2308
798	7.1	6.2	2.0	3.66	3.18	71	0.0	1763	1532
1013	8.5	7.4	3.4	2.50	2.17	74	0.5	1204	1046
1353	9.7	8.4	5.1	1.91	1.66	75	0.8	919	799
1408	10.6	9.2	6.5	1.81	1.57	82	2.3	871	757
1598	11.4	9.9	12.7	0.90	0.78	83	4.3	433	376
1805	13.3	11.6	19.8	0.67	0.58	83	5.8	324	281
2003	16.5	14.3	24.2	0.68	0.59	83	6.5	328	285
2205	20.4	17.8	30.2	0.68	0.59	84	7.3	326	283
2410	25.0	21.7	34.5	0.72	0.63	84	7.3	348	303
2500	26.9	23.4	37.0	0.73	0.63	84	7.0	350	304
2600	28.9	25.1	39.7	0.73	0.63	85	6.8	350	304
2700	30.6	26.6	42.2	0.73	0.63	86	6.0	350	304
2800	32.6	28.3	45.0	0.72	0.63	86	5.5	349	303
2903	34.1	29.6	50.0	0.68	0.59	87	5.5	328	285
2998	35.4	30.8	55.6	0.64	0.55	87	5.3	307	267
3075	36.5	31.7	59.0	0.62	0.54	88	5.0	298	259

Comments: Boat equipped with optional hardtop
 All data is the average of two direction runs

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.