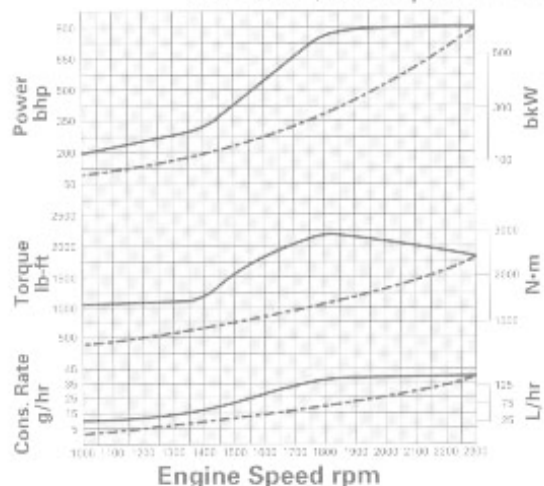




3406E DITA MARINE ENGINE – 336-597 bkW

PERFORMANCE CURVES

E Rating – 2300 rpm 597 bkW (800 bhp) 811 mhp



Prop Demand Curve Data

Speed rpm	Power bkW	Torque N-m	Fuel Cons g/bkW-hr	Fuel Rate L/hr
2300	597	2477	216	153.5
2200	522	2266	207	129.0
2000	392	1873	201	94.0
1800	286	1517	204	69.5
1600	201	1199	211	50.6
1400	135	918	218	34.9
1200	85	674	223	22.5
1000	49	468	235	13.7

Speed rpm	Power bhp	Torque lb-ft	Fuel Cons lb/bhp-hr	Fuel Rate g/hr
2300	800	1827	.355	40.6
2200	700	1671	.341	34.1
2000	526	1381	.331	24.8
1800	383	1119	.335	18.4
1600	269	884	.347	13.4
1400	180	677	.358	9.2
1200	114	497	.366	5.9
1000	66	345	.386	3.6

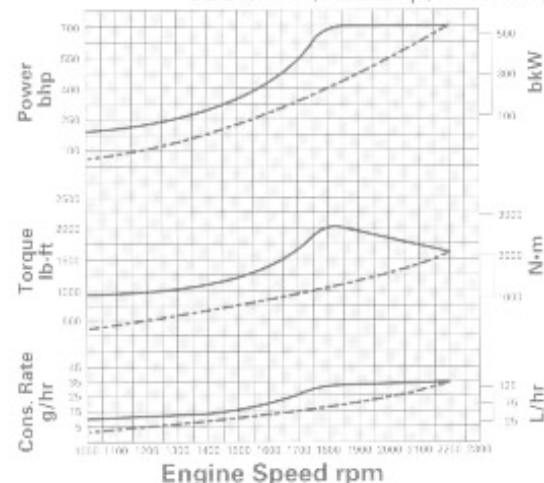
Max Power Curve Data

Power bkW	Torque N-m	Fuel Cons g/bkW-hr	Fuel Rate L/hr
597	2477	216	153.5
597	2589	215	152.9
596	2846	214	152.4
565	2996	212	142.4
417	2487	205	101.9
243	1661	210	61.0
185	1469	217	47.7
146	1391	224	38.9

Power bhp	Torque lb-ft	Fuel Cons lb/bhp-hr	Fuel Rate g/hr
800	1827	.355	40.6
800	1910	.353	40.4
799	2099	.352	40.3
757	2210	.348	37.6
559	1834	.337	26.9
327	1225	.346	16.1
248	1083	.357	12.6
195	1026	.368	10.3

E RATING – Planing hull vessels such as pleasure craft, harbor patrol, harbor master, and some fishing and pilot boats.

D Rating – 2200 rpm 522 bkW (700 bhp) 710 mhp



Prop Demand Curve Data

Speed rpm	Power bkW	Torque N-m	Fuel Cons g/bkW-hr	Fuel Rate L/hr
2200	522	2267	216	134.6
2000	392	1874	202	94.4
1900	336	1691	202	81.0
1800	286	1518	204	69.5
1600	201	1199	211	50.6
1400	135	918	218	34.9
1200	85	674	227	17.7
1000	49	468	235	13.7

Speed rpm	Power bhp	Torque lb-ft	Fuel Cons lb/bhp-hr	Fuel Rate g/hr
2200	700	1672	.355	35.6
2000	526	1382	.332	24.9
1900	451	1247	.332	21.4
1800	384	1120	.335	18.4
1600	269	884	.347	13.4
1400	181	677	.358	9.2
1200	114	498	.366	5.9
1000	66	345	.386	3.6

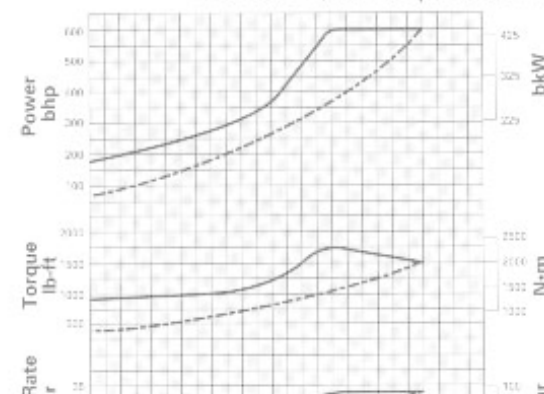
Max Power Curve Data

Power bkW	Torque N-m	Fuel Cons g/bkW-hr	Fuel Rate L/hr
522	2267	216	134.6
522	2492	212	131.5
522	2622	210	130.4
515	2730	207	126.8
309	1847	205	75.5
214	1461	211	53.9
170	1350	216	43.6
136	1300	222	36.0

Power bhp	Torque lb-ft	Fuel Cons lb/bhp-hr	Fuel Rate g/hr
700	1672	.355	35.5
700	1838	.348	34.7
700	1934	.345	34.4
690	2014	.340	33.5
415	1362	.337	19.9
287	1078	.347	14.2
228	996	.354	11.5
183	959	.364	9.5

D RATING – Planing hull vessels such as off-shore patrol boats, customs, police, and some fire and fishing boats. Also used for bow and stern thrusters.

C Rating – 2100 rpm 448 bkW (600 bhp) 608 mhp



Prop Demand Curve Data

Speed rpm	Power bkW	Torque N-m	Fuel Cons g/bkW-hr	Fuel Rate L/hr
2100	448	2035	208	111.1
2000	387	1846	204	94.1
1800	282	1495	204	68.6
1700	237	1334	208	58.7
1600	198	1181	212	49.9
1400	133	905	218	34.5
1200	84	665	223	22.2
1000	48	461	235	13.5

Speed rpm	Power bhp	Torque lb-ft	Fuel Cons lb/bhp-hr	Fuel Rate g/hr
2100	600	1501	.342	29.3
2000	518	1362	.336	24.9
1800	378	1103	.336	18.1
1700	318	984	.341	15.5
1600	265	871	.348	13.2

Max Power Curve Data

Power bkW	Torque N-m	Fuel Cons g/bkW-hr	Fuel Rate L/hr
448	2035	208	111.1
447	2136	208	110.9
448	2374	203	108.3
362	2031	203	87.3
276	1646	206	67.6
200	1366	212	50.6
162	1287	215	41.4
131	1250	221	34.4

Power bhp	Torque lb-ft	Fuel Cons lb/bhp-hr	Fuel Rate g/hr
600	1501	.342	29.3
600	1575	.342	29.3
600	1751	.334	28.6
485	1498	.333	23.1
370	1214	.338	17.9



- Prop Demand ----- 3.0 Exponent
- Engine Performance Parameters: Power +/- 3%;
Specific Fuel Consumption +/- 3%; Fuel Rate +/- 5%.

1400	178	667	.359	9.1	269	1008	.348	13.4
1200	112	490	.367	5.9	217	949	.353	10.9
1000	65	340	.387	3.6	176	922	.363	9.1

C RATING – Vessels such as ferries, harbor tugs, fishing boats moving at higher speeds out and back (i.e. lobster, crayfish, and tuna), off-shore service boats, and also displacement hull yachts and short trip coastal freighters where engine load and speed are cyclical.