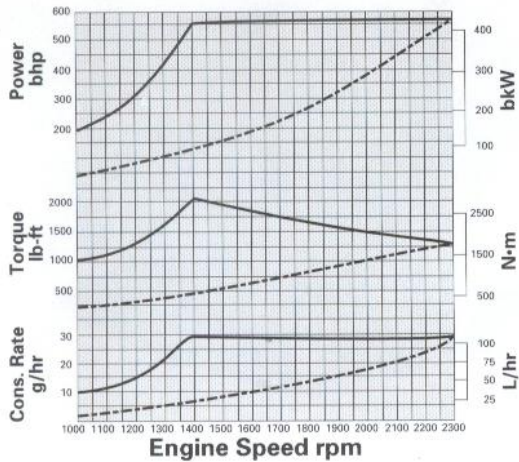


3196 MARINE ENGINE – 365-492 bkW



PERFORMANCE CURVES

D Rating – 2300 rpm 425 bkW (570 bhp) 578 mhp



Prop Demand Curve Data				
Speed rpm	Power bkW	Torque N-m	Fuel Cons g/bkW-hr	Fuel Rate L/hr
2300	425	1765	214	108.3
2200	372	1614	208	92.1
2000	279	1334	203	67.7
1800	204	1081	204	49.6
1600	143	854	210	35.7
1400	96	654	216	24.7
1200	60	480	224	16.1
1000	35	334	276	11.5
800	18	214	444	9.5

Speed rpm	Power bhp	Torque lb-ft	Fuel Cons lb/bhp-hr	Fuel Rate g/hr
2300	570	1302	.351	28.6
2200	499	1190	.342	24.3
2000	375	984	.334	17.9
1800	273	797	.336	13.1
1600	192	630	.344	9.4
1400	128	482	.355	6.5
1200	81	354	.368	4.3
1000	47	246	.454	3.0
800	24	158	.730	2.5

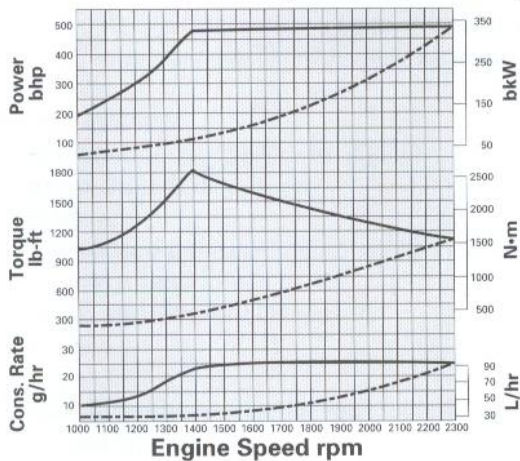
TMI — DM2783-04

Max Power Curve Data			
Power bkW	Torque N-m	Fuel Cons g/bkW-hr	Fuel Rate L/hr
425	1765	214	108.3
425	1845	210	106.1
425	2029	205	104.0
425	2255	207	105.1
425	2537	216	109.3
423	2884	225	113.5
218	1734	221	57.4
145	1382	225	38.9
96	1147	237	27.1

Power bhp	Torque lb-ft	Fuel Cons lb/bhp-hr	Fuel Rate g/hr
570	1302	.351	28.6
570	1361	.344	28.0
570	1497	.338	27.5
570	1663	.341	27.8
570	1871	.355	28.9
567	2127	.370	30.0
292	1279	.363	15.2
194	1020	.370	10.3
129	846	.389	7.2

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 – 2300 rpm 365 bkW (490 bhp) 497 mhp



Prop Demand Curve Data				
Speed rpm	Power bkW	Torque N-m	Fuel Cons g/bkW-hr	Fuel Rate L/hr
2300	365	1517	208	90.7
2200	320	1388	206	78.5
2000	240	1147	204	58.6
1800	175	929	206	43.0
1600	123	734	212	31.1
1400	82	562	221	21.7
1200	52	413	237	14.7
1000	30	287	292	10.5
800	15	184	477	8.7

Speed rpm	Power bhp	Torque lb-ft	Fuel Cons lb/bhp-hr	Fuel Rate G/hr
2300	490	1119	.342	24.0
2200	429	1024	.339	20.7
2000	322	846	.336	15.5
1800	235	685	.338	11.4
1600	165	541	.348	8.2
1400	111	415	.363	5.7
1200	70	305	.390	3.9
1000	40	212	.480	2.8
800	21	136	.784	2.3

TMI — DM2784-04

Max Power Curve Data			
Power bkW	Torque N-m	Fuel Cons g/bkW-hr	Fuel Rate L/hr
365	1517	208	90.7
365	1586	207	89.9
365	1745	205	89.5
365	1939	204	89.0
364	2172	209	90.5
361	2460	218	93.8
218	1734	220	57.1
145	1383	225	38.9
96	1147	238	27.2

Power bhp	Torque lb-ft	Fuel Cons lb/bhp-hr	Fuel Rate G/hr
490	1119	.342	24.0
490	1170	.339	23.7
490	1287	.337	23.6
490	1430	.336	23.5
488	1602	.343	23.9
484	1814	.359	24.8
292	1279	.362	15.1
194	1020	.370	10.3
129	846	.390	7.2

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.