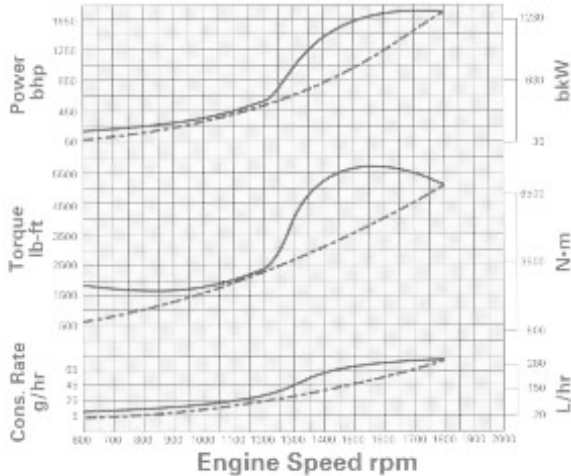


PERFORMANCE CURVES

D Rating – 1800 rpm 1305 bkW (1750 bhp) 1775 mhp



Prop Demand Curve Data

Speed rpm	Power bkW	Torque N-m	Fuel Cons g/bkW-hr	Fuel Rate L/hr
1800	1305	6923	203	315.9
1600	917	5470	203	222.2
1400	614	4188	214	156.9
1200	387	3077	225	103.5
1000	224	2137	230	61.4
800	115	1368	245	33.4
600	48	769	300	17.3

TMI — DM2893-04

Max Power Curve Data

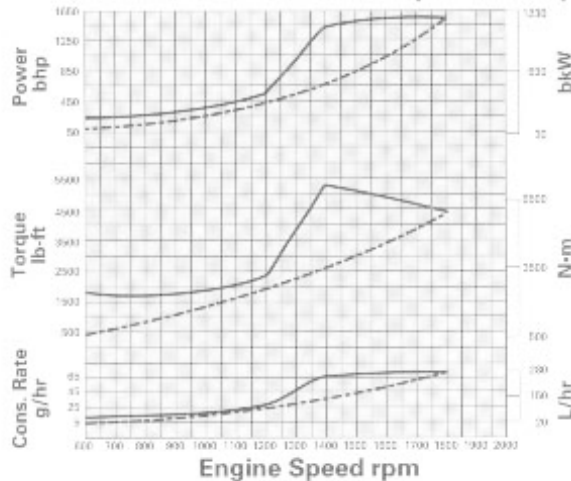
Power bkW	Torque N-m	Fuel Cons g/bkW-hr	Fuel Rate L/hr
1305	6923	203	315.9
1305	7789	193	299.5
1070	7298	197	251.7
407	3239	222	107.9
254	2426	230	69.6
192	2292	234	53.6
155	2467	246	45.5

Speed rpm	Power bhp	Torque lb-ft	Fuel Cons lb/bhp-hr	Fuel Rate g/hr
1800	1750	5106	.334	83.5
1600	1229	4034	.334	58.7
1400	823	3089	.352	41.4
1200	519	2269	.369	27.3
1000	300	1576	.378	16.2
800	154	1009	.402	8.8
600	65	567	.493	4.6

Power bhp	Torque lb-ft	Fuel Cons lb/bhp-hr	Fuel Rate g/hr
1750	5106	.334	83.5
1750	5745	.316	79.1
1435	5383	.325	66.5
546	2389	.366	28.5
341	1789	.378	18.4
257	1690	.385	14.2
208	1820	.405	12.0

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

C Rating – 1800 rpm 1119 bkW (1500 bhp) 1521 mhp



Prop Demand Curve Data

Speed rpm	Power bkW	Torque N-m	Fuel Cons g/bkW-hr	Fuel Rate L/hr
1800	1119	5934	203	270.1
1600	786	4688	207	193.4
1400	526	3590	216	135.6
1200	331	2637	224	88.8
1000	192	1831	232	53.0
800	98	1172	259	30.3
600	41	659	319	15.8

Max Power Curve Data

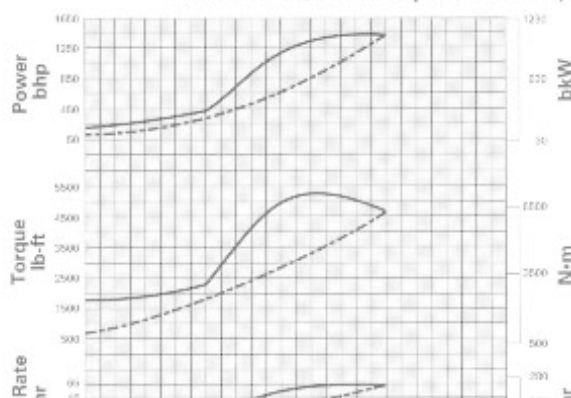
Power bkW	Torque N-m	Fuel Cons g/bkW-hr	Fuel Rate L/hr
1119	5934	203	270.1
1119	6676	201	267.5
1046	7135	205	254.9
407	3239	223	108.1
254	2426	230	69.6
192	2292	234	53.6
155	2467	246	45.5

Speed rpm	Power bhp	Torque lb-ft	Fuel Cons lb/bhp-hr	Fuel Rate g/hr
1800	1500	4377	.333	71.4
1600	1054	3458	.339	51.1
1400	706	2648	.355	35.8
1200	444	1945	.369	23.4
1000	257	1350	.381	14.0
800	132	864	.426	8.0
600	56	486	.525	4.2

Power bhp	Torque lb-ft	Fuel Cons lb/bhp-hr	Fuel Rate g/hr
1500	4377	.333	71.4
1500	4924	.330	70.7
1403	5262	.336	67.3
546	2389	.366	28.6
341	1789	.378	18.4
257	1690	.385	14.2
208	1820	.405	12.0

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

C Rating – 1600 rpm 1052 bkW (1410 bhp) 1430 mhp



Prop Demand Curve Data

Speed rpm	Power bkW	Torque N-m	Fuel Cons g/bkW-hr	Fuel Rate L/hr
1600	1052	6276	194	243.1
1400	704	4805	204	171.4
1200	444	3530	216	114.2
1000	257	2451	219	67.0
800	131	1569	222	34.8
600	56	883	265	17.5

Max Power Curve Data

Power bkW	Torque N-m	Fuel Cons g/bkW-hr	Fuel Rate L/hr
1052	6276	194	243.1
1052	7172	198	248.5
800	6366	210	199.8
325	3104	224	86.9
220	2626	228	59.7
154	2451	231	42.5

Speed rpm	Power bhp	Torque lb-ft	Fuel Cons lb/bhp-hr	Fuel Rate g/hr
1600	1410	4629	.319	64.2
1400	945	3544	.336	45.3
1200	595	2604	.355	30.1
1000	344	1808	.360	17.7
800	176	1157	.365	9.2
600	74	651	.436	4.6

Power bhp	Torque lb-ft	Fuel Cons lb/bhp-hr	Fuel Rate g/hr
1410	4629	.319	64.2
1410	5290	.326	65.6
1073	4695	.344	52.8
436	2289	.369	23.0
295	1937	.374	15.8
207	1808	.380	11.2



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

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