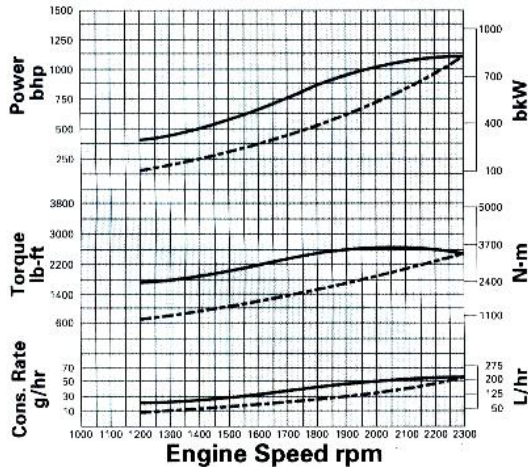


3412E DITTA MARINE ENGINE — 671-1044 bkW



PERFORMANCE CURVES

C Rating – 2300 rpm Fast Craft 820 bkW (1100 bhp) 1115 mhp



Prop Demand Curve Data

Speed rpm	Power bkW	Torque N-m	Fuel Cons g/bkW-hr	Fuel Rate L/hr
2300	820	3404	215	210.1
2200	718	3115	211	180.1
2000	539	2574	210	135.2
1800	393	2085	213	99.9
1600	276	1648	219	72.0
1400	185	1261	226	49.7
1200	117	927	231	32.1

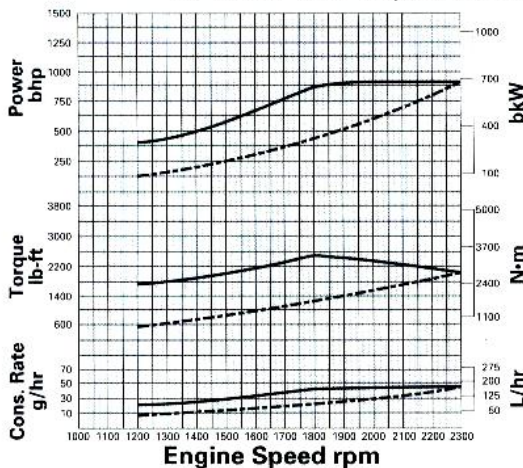
TMI — DM4125-00

Max Power Curve Data

Power bkW	Torque N-m	Fuel Cons g/bkW-hr	Fuel Rate L/hr
820	3404	215	210.1
815	3535	212	206.0
752	3592	208	186.5
646	3428	205	157.8
495	2951	210	123.6
376	2567	221	99.1
298	2372	232	82.3

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 – 2300 rpm 671 bkW (900 bhp) 913 mhp



Prop Demand Curve Data

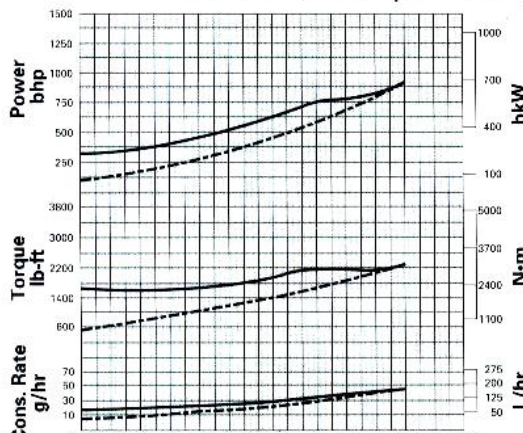
Speed rpm	Power bkW	Torque N-m	Fuel Cons g/bkW-hr	Fuel Rate L/hr
2300	671	2786	214	171.1
2200	587	2549	213	148.8
2000	441	2107	215	113.1
1800	322	1706	219	83.9
1600	226	1348	224	60.2
1400	151	1032	231	41.6
1200	95	758	239	27.1

Max Power Curve Data

Power bkW	Torque N-m	Fuel Cons g/bkW-hr	Fuel Rate L/hr
671	2786	214	171.1
671	2912	211	168.6
670	3200	207	165.7
646	3428	205	158.1
495	2951	210	123.8
376	2567	221	99.1
298	2372	232	82.3

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.

B Rating – 2100 rpm Fast Craft 690 bkW (925 bhp) 938 mhp



Prop Demand Curve Data

Speed rpm	Power bkW	Torque N-m	Fuel Cons g/bkW-hr	Fuel Rate L/hr
2100	690	3138	209	171.7
2000	596	2846	213	151.5
1800	435	2305	211	109.4
1600	305	1821	217	78.8
1400	204	1395	224	54.7
1200	129	1025	229	35.2
1000	75	711	237	21.0

Max Power Curve Data

Power bkW	Torque N-m	Fuel Cons g/bkW-hr	Fuel Rate L/hr
690	3138	209	171.7
610	2911	213	154.5
558	2961	206	137.3
426	2545	211	107.1
337	2298	221	88.6
275	2191	230	75.6
238	2271	239	67.7

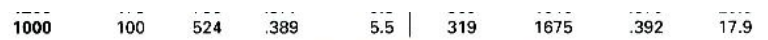
TMI — DM4122-01

Speed rpm	Power bhp	Torque lb-ft	Fuel Cons lb/bhp-hr	Fuel Rate g/hr
2100	925	2314	.343	45.4
2000	799	2099	.351	40.0
1800	583	1700	.347	28.9
1600	409	1343	.356	20.8
1400	274	1029	.369	14.5
1200	173	756	.377	9.3

Power bhp	Torque lb-ft	Fuel Cons lb/bhp-hr	Fuel Rate g/hr
925	2314	.343	45.4
818	2147	.349	40.8
748	2184	.339	36.3
672	1877	.346	28.3
452	1695	.363	23.4
369	1616	.379	20.0



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



B RATING – Vessels such as midwater trawlers, purse seiners, crew and supply boats, ferries, and towboats where locks, sandbars, and curves dictate frequent slowing, and engine load and speed are constant with some cycling.