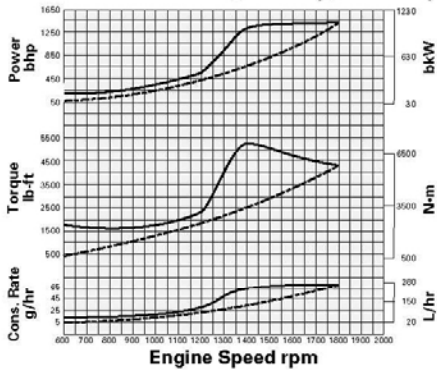


3512 MARINE ENGINE WITH EUI OPTION



PERFORMANCE CURVES

B Rating – 1800 rpm 1078 bkW (1445 bhp) 1465 mhp



Prop Demand Curve Data				
Speed rpm	Power bkW	Torque N-m	Fuel Cons g/bkW-hr	Fuel Rate L/hr
1800	1078	5716	203	260.5
1600	757	4517	207	187.0
1400	507	3458	217	130.9
1200	319	2541	225	85.5
1000	185	1764	233	51.3
800	95	1129	265	29.8
600	40	635	325	15.4

Prop Demand Curve Data				
Speed rpm	Power bhp	Torque lb-ft	Fuel Cons lb/bhp-hr	Fuel Rate g/hr
1800	1445	4216	.333	68.8
1600	1015	3332	.341	49.4
1400	680	2550	.356	34.6
1200	428	1874	.369	22.6
1000	248	1301	.383	13.6
800	127	833	.435	7.9
600	54	468	.533	4.1

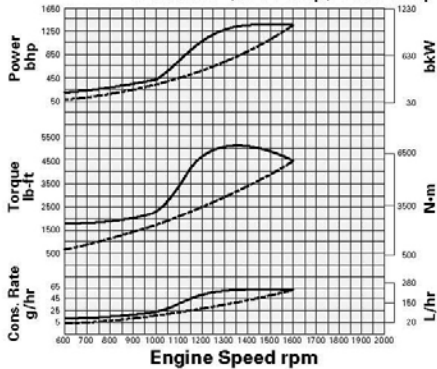
TMI — DM2877-03

Max Power Curve Data			
Power bkW	Torque N-m	Fuel Cons g/bkW-hr	Fuel Rate L/hr
1078	5716	203	260.5
1078	6431	201	257.8
1046	7135	205	255.1
407	3239	223	108.1
254	2426	230	69.6
192	2292	234	53.6
155	2467	246	45.5

Max Power Curve Data			
Power bhp	Torque lb-ft	Fuel Cons lb/bhp-hr	Fuel Rate g/hr
1445	4216	.333	68.8
1445	4743	.330	68.1
1403	5262	.336	67.4
546	2389	.366	28.6
341	1789	.378	18.4
257	1690	.385	14.2
208	1820	.405	12.0

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.

B Rating – 1600 rpm 1014 bkW (1360 bhp) 1379 mhp



Prop Demand Curve Data				
Speed rpm	Power bkW	Torque N-m	Fuel Cons g/bkW-hr	Fuel Rate L/hr
1600	1014	6052	194	234.8
1400	679	4633	205	165.8
1200	428	3404	216	110.1
1000	248	2364	219	64.5
800	127	1513	224	33.8
600	54	851	289	17.1

Prop Demand Curve Data				
Speed rpm	Power bhp	Torque lb-ft	Fuel Cons lb/bhp-hr	Fuel Rate g/hr
1600	1360	4464	.319	62.0
1400	911	3417	.337	43.8
1200	574	2511	.355	29.1
1000	332	1744	.359	17.0
800	170	1116	.368	8.9
600	72	628	.442	4.5

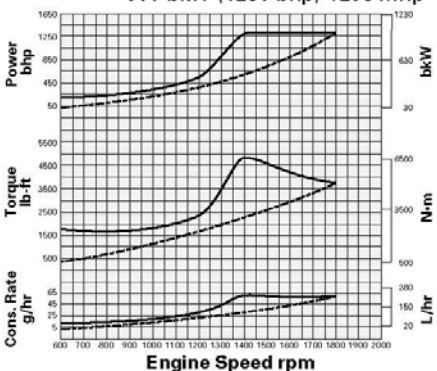
TMI — DM2876-04

Max Power Curve Data			
Power bkW	Torque N-m	Fuel Cons g/bkW-hr	Fuel Rate L/hr
1014	6052	194	234.8
1014	6916	199	240.0
800	6366	210	199.9
325	3104	224	86.9
220	2626	228	59.7
154	2451	231	42.5

Max Power Curve Data			
Power bhp	Torque lb-ft	Fuel Cons lb/bhp-hr	Fuel Rate g/hr
1360	4464	.319	62.0
1360	5101	.326	63.4
1073	4695	.345	52.8
436	2289	.369	23.0
295	1937	.374	15.8
207	1808	.380	11.2

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.

A Rating – 1800 rpm 955 bkW (1280 bhp) 1298 mhp



Prop Demand Curve Data				
Speed rpm	Power bkW	Torque N-m	Fuel Cons g/bkW-hr	Fuel Rate L/hr
1800	955	5064	205	232.7
1600	670	4001	210	167.9
1400	449	3063	218	116.8
1200	283	2251	226	76.2
1000	164	1563	237	46.2
800	84	1000	282	28.2
600	35	563	343	14.5

Prop Demand Curve Data				
Speed rpm	Power bhp	Torque lb-ft	Fuel Cons lb/bhp-hr	Fuel Rate g/hr
1800	1280	3735	.336	61.5
1600	899	2951	.345	44.4
1400	602	2259	.359	30.9
1200	379	1660	.372	20.1
1000	220	1153	.389	12.2
800	112	738	.463	7.4
600	47	415	.564	3.8

TMI — DM2875-03

Max Power Curve Data			
Power bkW	Torque N-m	Fuel Cons g/bkW-hr	Fuel Rate L/hr
955	5064	205	232.7
955	5697	202	229.9
955	6511	211	238.5
407	3239	224	108.8
254	2426	230	69.6
192	2292	234	53.6
155	2467	246	45.5

Max Power Curve Data			
Power bhp	Torque lb-ft	Fuel Cons lb/bhp-hr	Fuel Rate g/hr
1280	3735	.336	61.5
1280	4202	.332	60.7
1280	4802	.346	63.3
546	2389	.369	28.6
341	1789	.378	18.4
257	1690	.385	14.2
208	1820	.405	12.0

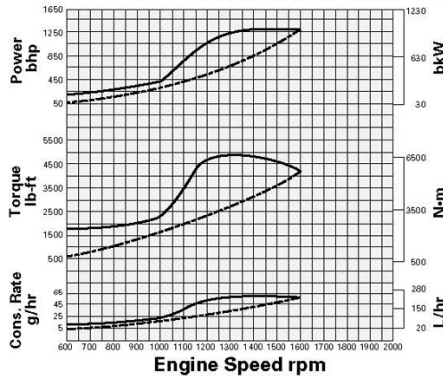
A RATING – For heavy-duty service in vessels such as freighters, tugboats, bottom drag trawlers, and deep river towboats when the engine is operated at rated load and speed up to 100% of the time without interruption or load cycling.

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

Fig. 8-3-3 Catálogo oficial del motor CATERPILLAR 3512 EUI

PERFORMANCE CURVES

A Rating – 1600 rpm
955 kW (1280 bhp) 1298 mhp



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

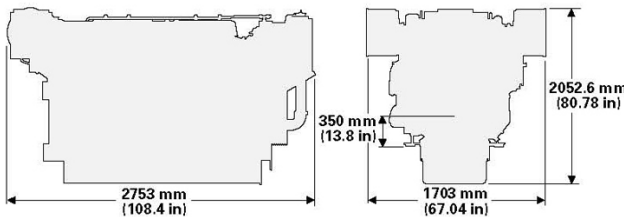
TMI — DM2874-03

Prop Demand Curve Data					Max Power Curve Data			
Speed rpm	Power kW	Torque N-m	Fuel Cons g/kW-hr	Fuel Rate L/hr	Power kW	Torque N-m	Fuel Cons g/kW-hr	Fuel Rate L/hr
1600	955	5697	195	221.9	955	5697	195	221.9
1400	639	4362	206	156.9	955	6511	199	226.6
1200	403	3204	216	103.8	800	6366	210	200.0
1000	233	2225	219	60.8	325	3104	224	86.9
800	119	1424	231	32.9	220	2626	228	59.7
600	50	801	275	16.5	154	2451	231	42.5

Speed rpm	Power bhp	Torque lb-ft	Fuel Cons lb/bhp-hr	Fuel Rate g/hr	Power bhp	Torque lb-ft	Fuel Cons lb/bhp-hr	Fuel Rate g/hr
1600	1280	4202	.321	58.6	1280	4202	.321	58.6
1400	857	3217	.338	41.4	1280	4802	.327	59.9
1200	540	2363	.356	27.4	1073	4695	.345	52.8
1000	312	1641	.360	16.1	436	2289	.369	23.0
800	160	1050	.380	8.7	295	1937	.374	15.8
600	67	591	.452	4.4	207	1808	.380	11.2

A RATING – For heavy-duty service in vessels such as freighters, tugboats, bottom drag trawlers, and deep river towboats when the engine is operated at rated load and speed up to 100% of the time without interruption or load cycling.

DIMENSIONS



RATING DEFINITIONS AND CONDITIONS

Ratings are based on SAE J1228 standard conditions of 100 kPa (29.61 in Hg) and 25° C (77° F). These ratings also apply at ISO3046/1, ISO8665, DIN6271, and BS5514 standard conditions of 100 kPa (29.61 in Hg), 27° C (81° F) and 60% relative humidity. Ratings are valid for air cleaner inlet temperatures up to and including 50° C (122° F) and for sea water temperatures up to and including 42° C (108° F) at sea level.

Fuel rates are based on fuel oil of 35° API [16° C (60° F)] gravity having an LHV of 42 780 kJ/kg (18 390 Btu/lb) when used at 29° C (85° F) and weighing 838.9 g/liter (7.001 lbs/U.S. gal). Fuel consumption shown with all oil, fuel, and water pumps, engine driven. For a “without pumps” condition, deduct approximately 0.5% for each pump not engine driven.

Additional ratings may be available for specific customer requirements. Consult your Caterpillar representative for details.

Materials and specifications are subject to change without notice.
LEHM7269-01

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Fig. 8-3-4 Catálogo oficial del motor CATERPILLAR 3512 EUI