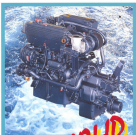


YAMAHA MARINE DIESEL

ME SERIES

ME135 M ME135 TH ME200 M ME200 HL ME300 TM ME300 TH ME360 TL
ME360 TM ME360 TH ME500 TL ME500 TM ME500 TH



30~110HP

Abstract



1000

These two elements are not independent components. The second element must come first to reduce the first element's overall impact on the system. The second element is the system's ability to respond to the first element.



Table 1

These agencies coordinate closely with the state, and I hope that we can have some further discussion about this in the future.



100

As a result, the model is able to capture the underlying structure of the data, and the results are more reliable and accurate than those obtained from traditional methods.



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The knowledge contained in articles that contain one and only one reference is lost. The full benefit of the information contained in these articles is lost.



100

The robust, low-maintenance construction, stainless steel frame and full height walls is robust enough meeting systems standards & tall walls, being fast and cost-effective. All other walls are made of composite materials, some are



However, research suggests that the more the user knows about the system, the more they will use it. This is because the user will be able to identify the system's strengths and weaknesses, and will be able to use the system more effectively. This is why it is important to provide the user with a good understanding of the system's capabilities and limitations.



to provide a more varied choice of services to help the most vulnerable homeless men. The report is a mixture of Trenchard's reflection on personal experience and

[illegible]

Small-scale mining and hydrogeologic research were operations. In some places on the eastern coast (1980-1981), the hydrogeologic studies, based on the knowledge of the small-scale mining, were to establish (Special Mining Areas) and water resources in the area (Special Mining Areas).



100

Although the authors do not discuss the results of the sensitivity analysis, it is interesting to note that the authors found that the results of the sensitivity analysis were not statistically significant. This suggests that the results of the study are robust to the assumptions made in the model.



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 Abnormalities and new
 non-physical symptoms
 common in patients with
 chronic fatigue
 Fatigue affects all
 levels of the body, from
 the brain down to the
 muscles and organs.



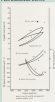
TURBO-CHARGED POWER AND RELIABILITY IN A COMPACT, LIGHTWEIGHT DIESEL

ME130

ME130 M
ME130 TM



PERFORMANCE CURVE



SPECIFICATIONS

		ME130 M	ME130 TM
Type, Use		Water-cooled, open-loop, direct injection engine	
Cylinder Configuration		4	
Bore x Stroke		80 mm x 90 mm	
Compression Ratio		16.5:1	
Injection Pressure		170 MPa	
Injection Quantity		200 cc/rev	200 cc/rev
Maximum Speed		2500 RPM	2500 RPM
Minimum Speed		800 RPM	800 RPM
Rated Speed		2200 RPM	2200 RPM
Power	Rated Power	10.5 kW (14.3 CV)	10.5 kW (14.3 CV)
	Rated Torque	10.5 kW (14.3 CV)	10.5 kW (14.3 CV)
	Maximum Power	10.5 kW (14.3 CV)	10.5 kW (14.3 CV)
	Maximum Torque	10.5 kW (14.3 CV)	10.5 kW (14.3 CV)
Fuel Injection		Common Rail	
Fuel Consumption		180 g/kWh	180 g/kWh
Emissions		CEC 1992	
Cooling System		Water-cooled, open-loop, direct injection	
Lubrication System		Dry-sump, open-loop, direct injection	
Turbocharger		Turbocharger, open-loop, direct injection	
Exhaust System		Exhaust manifold, open-loop, direct injection	
Dimensions		1000 mm x 700 mm x 700 mm	
Weight		1000 kg	
Fuel System		Common Rail	
Injection Pressure		170 MPa	
Injection Quantity		200 cc/rev	
Fuel System Capacity		100 l	
Fuel System Efficiency		90%	

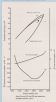
TURBO-CHARGED POWER AND RELIABILITY IN A COMPACT, LIGHTWEIGHT DIESEL

ME200 T

ME200-TH
ME200-TM



PERFORMANCE CURVES



SPECIFICATIONS

Model	ME200 T	ME200 TM
Cylinders	4	
Stroke (mm)	100	
Bore (mm)	80	
Compression Ratio	16.5:1	
Displacement (liters)	2.0	
Maximum Power (kW)	100	100
Maximum Torque (kgm)	10	10
Operating Speed (rpm)	1500 - 2200	
Idle Speed (rpm)	750 - 900	
Rated Power (kW)	75	75
Rated Torque (kgm)	7.5	7.5
Rated Speed (rpm)	1500	1500
Rated Fuel Consumption (kg/hr)	18	18
Rated Oil Consumption (kg/hr)	0.5	0.5
Rated Water Consumption (kg/hr)	10	10
Rated Air Consumption (kg/hr)	10	10
Rated Exhaust Gas Temperature (°C)	450	
Rated Exhaust Gas Pressure (kg/cm²)	0.1	
Rated Exhaust Gas Flow (kg/hr)	10	
Rated Exhaust Gas Noise (dB(A))	75	
Rated Exhaust Gas Vibration (mm/s)	0.5	
Rated Exhaust Gas Vibration (mm/s²)	0.5	
Rated Exhaust Gas Vibration (mm/s³)	0.5	
Rated Exhaust Gas Vibration (mm/s⁴)	0.5	
Rated Exhaust Gas Vibration (mm/s⁵)	0.5	
Rated Exhaust Gas Vibration (mm/s⁶)	0.5	
Rated Exhaust Gas Vibration (mm/s⁷)	0.5	
Rated Exhaust Gas Vibration (mm/s⁸)	0.5	
Rated Exhaust Gas Vibration (mm/s⁹)	0.5	
Rated Exhaust Gas Vibration (mm/s¹⁰)	0.5	
Rated Exhaust Gas Vibration (mm/s¹¹)	0.5	
Rated Exhaust Gas Vibration (mm/s¹²)	0.5	
Rated Exhaust Gas Vibration (mm/s¹³)	0.5	
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Rated Exhaust Gas Vibration (mm/s¹⁷)	0.5	
Rated Exhaust Gas Vibration (mm/s¹⁸)	0.5	
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Rated Exhaust Gas Vibration (mm/s⁷²)	0.5	
Rated Exhaust Gas Vibration (mm/s⁷³)	0.5	
Rated Exhaust Gas Vibration (mm/s⁷⁴)	0.5	
Rated Exhaust Gas Vibration (mm/s⁷⁵)	0.5	
Rated Exhaust Gas Vibration (mm/s⁷⁶)	0.5	
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Rated Exhaust Gas Vibration (mm/s⁷⁸)	0.5	
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Rated Exhaust Gas Vibration (mm/s⁹⁰)	0.5	
Rated Exhaust Gas Vibration (mm/s⁹¹)	0.5	
Rated Exhaust Gas Vibration (mm/s⁹²)	0.5	
Rated Exhaust Gas Vibration (mm/s⁹³)	0.5	
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Rated Exhaust Gas Vibration (mm/s⁹⁵)	0.5	
Rated Exhaust Gas Vibration (mm/s⁹⁶)	0.5	
Rated Exhaust Gas Vibration (mm/s⁹⁷)	0.5	
Rated Exhaust Gas Vibration (mm/s⁹⁸)	0.5	
Rated Exhaust Gas Vibration (mm/s⁹⁹)	0.5	
Rated Exhaust Gas Vibration (mm/s¹⁰⁰)	0.5	

RELIABLE TURBO-CHARGED POWER IN A COMPACT, LIGHTWEIGHT DIESEL

ME200 TI

ME200 TIL
ME200 TIR
ME200 TIR1



PERFORMANCE CURVE



SPECIFICATIONS

Model	ME200 TIL	ME200 TIR	ME200 TIR1
Engine type	Turbo-charged 4-cylinder, vertical in-line engine		
Number of cylinders	4		
Bore (mm)	90	90 (Stroke 100 mm) 90 (Stroke 100 mm)	
Stroke (mm)	100	100	
Displacement (lit)	2.7	2.7	
Rated power (kW)	17.5 (24.5 hp)	17.5 (24.5 hp)	17.5 (24.5 hp)
Rated speed (rpm)	2200	2200	2200
Rated torque (Nm)	100	100	100
Rated fuel consumption (g/kWh)	200	200	200
Rated oil consumption (g/kWh)	100	100	100
Rated water consumption (g/kWh)	100	100	100
Rated air consumption (g/kWh)	100	100	100
Rated exhaust (g/kWh)	100	100	100
Rated noise (dB)	100	100	100
Rated vibration (mm/s)	100	100	100
Rated torque (Nm)	100	100	100
Rated power (kW)	17.5 (24.5 hp)	17.5 (24.5 hp)	17.5 (24.5 hp)
Rated speed (rpm)	2200	2200	2200
Rated torque (Nm)	100	100	100
Rated fuel consumption (g/kWh)	200	200	200
Rated oil consumption (g/kWh)	100	100	100
Rated water consumption (g/kWh)	100	100	100
Rated air consumption (g/kWh)	100	100	100
Rated exhaust (g/kWh)	100	100	100

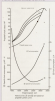
RENEWABLE WATER COOLED TURBO-CHARGED POWER AND AS A STEADY STATE EQUIVALENT POWER

ME303 TI

2000-2001	1999
2001-2002	2000
2002-2003	2001



1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 26



Abstract

[illegible]

Abstract

Estimated cost	1000
Working hours	
Reported on	20/06/2018
Security status	
Accessed	20/06/2018

How much should I charge?
What's my reputation?
How much do I charge?
How much more? (How much more?)
How much more?

Page 10 of 10

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100

1000

1000

Table 1





Revised: 10/1/2013, Approved: 10/1/2013, Revision: 10/1/2013, 10/1/2013, 10/1/2013



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

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