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engine torque specs over 6 000 automotive torque specs search car torque specifications by engine or model series rules mandate a gm 305 block you have a choice of 10 different casting numbers with a spec 305 head a max compression ratio of 10 25 to 1 flat tappet cam and constant flow butterfly engine performance data 1500 rpm rating conditions ratings are in accordance with iso 15550 and iso 8528 5 reference conditions air pressure at 100 kpa 29 61 in hg air temperature 25 c 77 f and 30 relative humidity the fuel consumption data is based on no 2 diesel fuel weight at 0 85 kg liter 7 001 lb u s gal specifications vehicle applications related engines the 6 2l l87 is part of the gm ecotec3 engine family and is a bigger and more powerful version of the 5 3l l84 to elaborate the l87 is the 350 290 hp uses an ac pf 454 or pf1218 oil filter camshaft the 350 290 hp engine uses an aggressive flat tappet camshaft to achieve the level of performance for its intended usage camshaft lift is 450 intake 460 exhaust camshaft duration 050 is 222 degrees intake and exhaust factor advance timing low high rpm high low vacuum energy of ignition high low low high fuel octane mixture air fuel high rich low lean temperature combustion chamber shape spark plug location combustion turbulence cool open offset low find information about gm 39 s small block engine the 6 2l v8 small block ls3 including detailed info and specifications vehicle applications and more a curve of constant power will produce an ideal form of tractive effort curve and is approached by the steam engine and the series wound electric traction motor it could be attained with the internal combustion engine if an infinitely variable gearbox of 100 efficiency was possible consider the torque at road wheel see the following figure power output curves are based on the engine operating with fuel system water pump and lubricating oil pump not included are battery charging alternator fan optional equipment and driven components values from engine control modules and displayed on instrument panels are not absolute tolerance varies but is generally less than a refreshed x15 performance series is new to 2021 and designed to meet epa and greenhouse gas phase 2 requirements while the x15 performance series is being updated from the 2017 version many hardware changes have been in production since 2020 with the x15 efficiency series engine specifications max power maximum engine power in kw and hp and its rpm max torque maximum engine torque in nm and its rpm if torque cap is enabled the rpm is the first point where the limit rpm beyond this rpm the engine is not producing any more torque only friction torque stall lq4 performance specifications lq4 applications lq4 engine blocks lq4 rotating assembly lq4 cylinder heads lq4 cam specifications lq4 valvetrain specs other key lq4 specs the x15 ratings for 2021 provide greater turbocharger airflow and a high performance egr cooler for overall air handling improvements and greater efficiency throughout the system even the x15 s best in class engine brake has been improved with egr assist braking a more robust design means more reliable performance for those who want to build their own custom stroker small block engine this partial comes with the specially modified block 3 80 forged steel stroker crankshaft heavy duty connecting rods hypereutectic pistons bearings oil pan oil pump front cover damper and 12 75 flexplate fig 1 engine performance torque curve torque curve shown in dark red color is the graph plotted between torque and rpm of the engine normally it also plotted along with the hp curve of the engine shown in green you must observe that as the rpm increases both the curve become steeper this is because as the rpm increases the cylinder curves it indicates that propeller power at 2 300 rpm is 250 but that the engine is putting out about 380 hp at that same speed what happened to the missing 130 horse power the answer is that the engine isn't generating it a diesel engine's power at any rpm is controlled by how much fuel is metered into the injectors cubic prop demand curve data for displacement hulls only max power curve data tmi tm9905 02 tmi tm3131 03 prop demand 3 0 exponent engine performance parameters power 3 specific fuel consumption 3 fuel rate 5 for displacement hulls only complete information about the general motors 6 2 liter lt2 v8 engine including details specifications vehicle applications horsepower torque and much more

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