

Caterpillar 3412 Engine Specifications

Caterpillar 3412 Engine Specifications Caterpillar 3412 Engine Specifications A Comprehensive Overview The Caterpillar 3412 engine a legendary power plant in the realm of heavyduty applications is renowned for its robust design exceptional power output and remarkable durability This comprehensive guide will delve into the specifications of this iconic engine providing you with a detailed understanding of its key features and capabilities

I The Caterpillar 3412 is a 12cylinder fourstroke diesel engine boasting a displacement of 1287 cubic inches 211 liters It was first introduced in 1985 and quickly became a popular choice for a wide range of applications including Construction Equipment Excavators loaders bulldozers and other heavy machinery Mining Haul trucks drilling rigs and mining shovels Marine Tugboats ferries and workboats Power Generation Standby power generators and prime power installations

II Engine Specifications A General Model Caterpillar 3412 Type 12cylinder fourstroke turbocharged diesel engine Displacement 1287 cubic inches 211 liters Bore and Stroke 65 inches 165 mm x 7 inches 178 mm Rated Speed 1800 RPM Configuration Inline watercooled with a single turbocharger Fuel System Electronic unit injection EUI B Power and Torque The Caterpillar 3412 engine offers a wide range of power and torque outputs depending on the specific configuration and application Here are some common ratings Maximum Power 650900 horsepower 485671 kW Maximum Torque 21002800 lbft 28483798 Nm C Dimensions and Weight 2 Length 825 inches 210 cm Width 45 inches 114 cm Height 60 inches 152 cm Dry Weight Approximately 5000 pounds 2268 kg D Fuel Consumption Fuel consumption varies depending on operating conditions load and engine configuration Typical fuel consumption rates range from 035 to 045 gallons per horsepower hour 0093 to 0119 liters per kilowatt hour E Emissions The Caterpillar 3412 engine meets various emissions regulations including EPA Tier 23 For nonroad applications IMO Tier II For marine applications

III Key Features and Technologies A Electronic Unit Injection EUI The EUI system provides precise fuel delivery and optimization resulting in increased fuel efficiency and reduced emissions B Turbocharging The single turbocharger boosts air pressure increasing power and torque output while enhancing fuel efficiency C Durable Construction The Caterpillar 3412 engine is built with heavyduty components and robust materials for longlasting performance in demanding environments D Easy Maintenance The engine features a welldesigned layout with readily accessible components for streamlined maintenance and repair

IV Applications The Caterpillar 3412 engine finds widespread application in diverse industries Construction Equipment Excavators loaders bulldozers and other heavy machinery rely on the 3412s power and durability to handle demanding tasks 3 Mining Haul trucks drilling rigs and mining shovels require the engines high torque and reliability for efficient operation in challenging environments Marine Tugboats ferries and workboats benefit from the 3412s power fuel efficiency and reliability in maritime applications Power Generation Standby power generators and prime power installations utilize the 3412s robust design and consistent performance for critical power needs

V Advantages High Power Output The Caterpillar 3412 delivers impressive power and torque making it suitable for demanding applications Exceptional Durability Built with robust components the engine withstands heavy loads and harsh operating conditions Fuel Efficiency The EUI system and turbocharging optimize fuel consumption reducing

operational costs Reliable Performance Known for its reliability and long service life the 3412 engine minimizes downtime Versatile Applications Its power and durability make it adaptable to a wide range of applications across different industries VI Conclusion The Caterpillar 3412 engine remains a powerful and reliable choice for heavyduty applications renowned for its high power output exceptional durability and fuel efficiency Its versatility and adaptability make it a valuable asset for a wide range of industries ensuring efficient and reliable operation in even the most demanding environments

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