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[Cat Grader 14h Manual](#)

Cat 3176C ATAAC Engine

The six-cylinder, direct injection, turbocharged and air-to-air aftercooled engine is built for power, reliability, low maintenance, excellent fuel economy and low emissions.



Cat 3176C ATAAC Engine.

The innovative 3176C diesel engine delivers large-engine performance from a compact engine design. The six-cylinder engine is turbocharged and air-to-air aftercooled. With high displacement and low rated speed, this engine provides excellent fuel economy and durability that can significantly reduce operating costs.

Improved Torque. Power curves customized for the 143H increase peak torque for higher ground speeds and enhanced productivity. Rimpull has been increased in all gears for greater productivity.

Variable Horsepower (VHP) and

VHP Plus. Automatically increases horsepower in higher gears when the machine can use it and when all-wheel drive is engaged. In applications such as snow removal, this power allows higher travel speeds and faster snow removal for more snow clearing in less time. Also, the higher rimpull in all gears maximizes performance during high-speed winging and heavy snow load applications. In lower gears where traction is limited, horsepower is limited, reducing wheel slip, tire wear and conserving fuel.

- The 143H has a VHP Plus option to provide additional horsepower in forward gears 7-8.

Lugging Performance. High torque output and torque rise makes the 3176C very responsive. Its superior lugging maintains consistent grading speeds without the need to downshift.

Advanced fuel system. The advanced Diesel Engine Module (ADEM III) fuel system is a Caterpillar exclusive electronic control module which provides improved engine response, performance, fuel efficiency, troubleshooting, diagnostics, and reduced emissions. The ADEM III electronic engine control improves altitude capability to 3000 meters without deration and allows integration with the electronic transmission control for maximum power train efficiency.

Turbocharged and Air-to-air aftercooled.

Turbocharger packs more dense air into the cylinders for more complete combustion and lower emissions improving performance and engine efficiency. These benefits are especially useful at high altitudes. Air-to-air aftercooler reduces smoke and emissions by providing a cooler inlet air for more efficient combustion. This also extends the life of the piston rings and bore.

Extended Engine Life. The large bore-stroke design and conservative power rating minimize internal stresses and increase component life. The low engine speeds reduce engine wear and sound levels.

Hydraulic Demand Fan. The hydraulic demand fan control automatically adjusts cooling fan speed according to engine cooling requirements. This system reduces demands on the engine, putting more power to the ground and improving fuel efficiency.

Caterpillar engine oil. It is formulated to optimize engine life and performance and is strongly recommended for use in Cat diesel engines. The engine oil change interval is increased to 500 hours.

Factory remanufactured parts. A large choice of factory remanufactured parts and dealer proposed repair options increase machine availability and reduce total repair costs.

Emissions Compliant. The new 143H has reduced NOx, hydrocarbon, and particulate emissions. The Cat 3176C meets or exceeds all U.S. EPA Tier II and EU Stage II emissions control standards worldwide.



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Very important remark: The CAT equipment prefix (first three figures and numbers in serial number) is absolutely necessary information for correct engine identification.

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Many people buy this manual just to have it around for when the inevitable happens.. This manual is very useful in the treatment and repair Even the most novice mechanic can easily follow the step-by-step guides which are made simple by the illustrations and drawings.. Many people are scared to touch their machine because it seems difficult This is only true when you do not have the resources and tools available for when that time comes! This manual will easily pay for itself on the first oil change, spark plug change, or air filter change that you perform!The manual includes pictures and easy to follow directions on what tools are needed.. CATERPILLAR CAT 140H MOTOR GRADER Parts Catalog can easily help you with any repairs that you may need to do.. With lowered maintenance intervals, the 140 Motor Grader sets the pace for low operating costs, while maintaining

productivity and efficiency.. “We have 800 miles of gravel roads,” Faust explains, and his stable of 10 graders – a Cat 135H, 8 John Deere 670 Bs, and a Fiat F675 – does the bulk of the work keeping roads in shape.. Just imagine how much you can save by doing simple repairs yourself You can save anywhere from hundreds if not thousands of dollars in repair bills by using this CATERPILLAR CAT 140H MOTOR GRADER Parts Catalog manual.. The Cat® 140 uses 45 years of refined steering wheel and lever controls experience for more precise grading.. Some manuals actually cover more items that are not even listed!Parts Catalog Manual Covers:IndexMachine ArrangementEngine ArrangementBasic EngineLubrication SystemCooling SystemAir Inlet and Exhaust SystemApple downloads for mac os x. b0d43de27c [Internet Explorer For Mac 10.13.4](#)

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