

Deere 5020 Repowered With Detroit V-12 Diesel

"I bought a well used Deere 5020 tractor at an auction with a locked-up engine. It sat around for about a year before I decided to replace it with a Detroit V-12 diesel engine with about 450 hp," says David Will, Wadesville, Ind.

The tractor rides on 20.8 by 38 radial dual tires filled with fluid on back and on 20-in. tall, 22-ply truck tires on front. It weighs about 22,000 lbs. Will installed air cleaners out of a Freightliner semi truck on both sides of the tractor and also added a pair of 5-in. chrome stacks off a Peterbilt semi truck. A pair of gear-driven blowers force air into the engine.

"I use it to pull a 30-ft. field cultivator. It's a lot of fun to drive," says Will. "It's really loud - you can hear it 2 to 3 miles away when I'm using it in the field."

He found the V-12 diesel engine in Illinois. "It had come out of a Manitowoc dragline in a Kentucky coal mine, where it was used to mine hundreds of thousands of tons of coal. But the engine was locked up due to spun main bearings. I sent the bare block to Republic Diesel in Louisville, Ky., to have

it line-bored. They also bored out every cylinder hole to install oversize sleeves."

The entire winter of 2013 was devoted to assembling the engine and then installing it in the tractor. It has about 450 hp. "It now pulls anything I hook on behind it and is quite competitive at local tractor pulls," says Will.

He cut the frame in 2 and welded in new material to lengthen the tractor by 15 in. "I added part of the frame off a Deere 4840 underneath to strengthen the frame so that it wouldn't break the flywheel housing," says Will. "The 4840 frame is bolted to the 5020 frame and also to the tractor's planetary housing."

"It was a lot of work, but I'm pleased with how it turned out," says Will. "I spent about \$10,000 just to rebuild the engine. I also added two big 12-volt batteries hooked in series to provide 24 volts to start the engine."

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David Will replaced the locked-up engine on his Deere 5020 tractor with a Detroit V-12 diesel engine with about 450 hp. "I use it to pull a 30-ft. field cultivator. It's really loud," says Will.

Fast Way To Clean Dirty Bolts

"Cleaning dirty bolts is easy with our new Thread Wizard," says Marc Golat of Fairbanks, Alaska.

The patent pending bolt cleaning tool has a durable handle that can be hand held or clamped in a vise. A wire wheel protrudes into size-specific holes surrounding the wheel. Rotating a bolt inside a hole removes all the grime, dirt, and surface rust.

"The Thread Wizard leaves the bolt clean and ready to be used in seconds without using solvents, wire brushes or wire wheel grinders. It's the safest, fastest way to clean bolts," says Golat. "It won the Global Media award at the recent SEMA auto parts show in Las Vegas and was featured on Performance TV and

Race Talk radio. It works great with ratchet wrenches, power tools and hand tools. When the wire wheel starts to wear, it's designed to move to a new position or it can be replaced."

The Thread Wizard is available in both standard and metric. Standard cleans bolts from 3/16 to 9/16 and metric from 5 to 14 mm.

Sells for \$24.95 plus S&H.

Golat says he's looking for distributors.

Contact: FARM SHOW Followup, GolaTTaylor Tools, P.O. Box 10399, Fairbanks, Alaska 99710 (ph 907 374-0471; GolaTTaylorTools@gmail.com; www.threadwizard.us).



Thread Wizard uses a wire wheel that protrudes into size-specific holes surrounding the wheel. Rotating a bolt inside a hole removes all dirt and surface rust.

Foot-Operated Grease Gun Works Fast, Eliminates Mess

"Our new foot-operated grease gun makes it easy to grease machines quickly, safely, and with no mess," says Russell Barnes of LocknLube, located in Lyme, N.H. "It comes with a large canister that holds up to 16 lbs. of grease - the equivalent of 20 standard-size grease tube cartridges - that allows regular greasing without endless refilling."

The unit is equipped with the LockNLube grease coupler and a pressure release foot pedal. A 6 1/2-ft. long hose comes standard, with longer hoses available. A unique 2-stage pump creates a wave action in the grease, eliminating air locks.

"The combination of a pressure return valve and a check valve on the LockNLube coupler gives you near waste-free disconnection," says Barnes. "You simply lift the pedal to relieve back pressure and return grease to the canister."

The LockNLube grease gun coupler comes with a sliding sleeve that's activated by a thumb lever. The unit's 4 spring-steel jaws lock onto the grease zerk. With the jaws locked onto the zerk a leak-proof seal is created, preventing the coupler from coming loose and breaking the seal, says the company. Activating the trigger releases the coupler from the zerk.

"The tool's design doesn't require a messy



Foot-operated grease gun comes with a large canister that holds up to 16 lbs. of grease.

follower plate, and there are no troublesome seals to replace. A clip-on lid keeps rain and dust out, and the carry handle hinges away for easy filling," says Walton. "No external power source or batteries is required. The grease gun is industrial strength, and able to pump at more than 10,000 psi."

Sells for \$295 including S&H.

Contact: FARM SHOW Followup, Russell Barnes, 343 Dorchester Road, Lyme, N.H. 03768 (ph 603 795-2298; sales@locknlube.com; locknlube.com).



Modified trailer tongue jacks at either end of workbench - operated by a cordless drill fitted with a socket adapter - are used to lower bench wheels onto floor.

Portable Workbench Lifted By Jacks

"I made it to fit into the tight space my garage offers, but I can also quickly move it around wherever I want," says Eugene Schwanbeck, League City, Texas, about his portable workbench.

The cart rides on four caster wheels and measures 84 in. long by 37 in. high. A pair of modified trailer tongue jacks - operated by a cordless drill fitted with a socket adapter - are used to lower the wheels onto the floor.

He used 2 by 2 by 3/16-in. thick angle iron and sq. tubing to make the workbench frame. The jacks are on either side of the table and are accessible with a socket extension through a hole in each of the table's front legs.

The bottom of each jack has a metal bar with 2 caster wheels on it that fit between the front and back legs on either side of the workbench. When each jack is extended, the

wheels are lowered onto the floor as the table is lifted up. "Each side of the workbench is lifted independently, but since I use a cordless drill it only takes a few seconds to extend or retract each jack," says Schwanbeck.

Once raised, the table can be moved around effortlessly with tools and material on top. Each jack is rated at 3,000 lbs. Since Schwanbeck's garage floor isn't completely level, he added non-skid leveling rubber feet to each leg. "The feet can be screwed in or out to level the table and make the work surface more stable wherever the workbench is located. The rubber feet also help to dampen vibration from power tools," he says.

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