

when the holes don't align just right.

"I frequently work on small electric motors 1/2 hp. and below, especially small fan motors. I don't like using 3-in-1 oil as a lubricant because it dries up fairly quickly, leaving a gummy varnish on the shaft and bearing. One day at Home Depot, I was talking to another customer who happened to work for an electric motor repair service. I asked if they did any rewinding of motors around 1/2 hp. in size. He said they wouldn't work on anything under 3/4 hp. He also said that for all sleeve bearing lubrication, they use Mobile Velocite, a high-quality synthetic oil that's engineered for Bridgeport spindle bearings. Looking online, I discovered that the smallest quantity of this oil you can buy from Mobil is 1 gal., but there are vendors on eBay who repackage it in 1 qt. bottles. I bought 2 qts. and a quality oil can (keeps its prime) for applying the oil. So far, nothing I've used this oil on (both ball and sleeve bearings) has dried up, even motors that have run constantly for a year or more. Great stuff!"



**John Humeniuk, Baudette, Minn.:** "I got tired of having small and light parts fly around inside my sandblaster. Now, I put them on these extra-large safety pins.

"You can find 5-in. long, stainless-steel safety pins on Amazon for as little as \$7 for a pack of five.

"They're great for small nuts and washers, as well as clamps like I had in this photo. I don't have to worry about them getting lost in the blast medium and only partially cleaned."



**Tom Mattiuz, Saint Marys, Penn.:** "I bought a Deere X390 lawn tractor with a mower and 44-in. snowblower. The blower belt is a bear to install. The instructions state that once the blower is mounted, you raise it to the uppermost level to work the belt on. Who are they trying to fool? There's no way to release the belt tension. Each time I installed it, I smashed one of my fingers. The old-style snow THROWER had a lever to release the belt tension for easy installation. Not the newer model BLOWERS. To install it this year, I looped a rope around the pulley arm, ran a piece of rebar through the loops in the rope, and pulled it to release the tension. I was by myself, so I couldn't hold the bar and put the belt on at the same time. So, I had to jury rig a solution (see picture). I used a small pry bar against the frame and held the rebar tight with it. Deere needs to have an older person that has arthritis install their attachment and make sure it's an easy install."

**Charley Chessher, Meriden, Kan.:** "I bought new struts for my car without the springs. I needed a way to compress them to get them back on, so I took my log splitter

and it worked great to compress them with a small cable and clamps."

**Larry McCollum, Hulett, Wyo.:** "I was having trouble with cows tipping over plastic lick tubs. I took an old baler tire and marked out the size of the lick tub then cut it out with a chainsaw. I slid the lick tub into the hole in the tire, now the cows can't tip it over."

**James Neppi, Preston, Minn.:** "When my IH 1460 combine went down between a field and home, I used two hose clamps and a piece of inner tube on the hydraulic suction line to get it back home."

**Darrell Cooper, Chillicothe, Mo.:** "It can be dangerous and dirty climbing under field cultivators and discs to grease all the couplings. If you use flex grease hose and angled adapters with a holder at the top of metal by welding a straight coupler on the end of the hose and put a grease zerk you can then grease from the top side."



**David Simpler, Elkton, Md.:** "Dehumidifier blocks can be awkward to place in your tool cabinet sometimes. A magnet on the back solves the problem and keeps it neatly in place."



**Gary Meeks, Augusta County, Va.:** "I use old rake teeth that fall off and sharpen them to make a little compact hay hook. Handy to have in your toolbox to pull jammed debris out of equipment."



**Lance B., via www.repurposedmaterials.com:** "I used 3-in. fire hose cut into sections to make protective sleeves for my chain saw bars."

**Kenneth Todd, Red Deer County, Alberta:** "If you have a hammer or axe head that is slightly loose and needs to be tightened up, a lot of people will put it into a jug or bucket of water and leave it sit for a few days until the wood swells and the head is tight again. The problem is that when the wood dries out the head will become loose again. The trick is to soak the hammer or axe in anti-freeze and not water so it won't dry out."

**Nigel Thornborrow, Yorkshire, U.K.:** Nigel mounted a bicycle water bottle holder to the cup holder in his tractor cab so he could have both hot and cold beverages handy at the same time. We found Nigel's idea in Profi magazine U.K. (www.profi.co.uk).

## Biosynthetic Works Better Than Standard Hydraulic Fluid

Bio-Ultimax 1000 is a biosynthetic oil that lasts longer, performs better, and handles cold weather better than standard hydraulic fluids. The biodegradable product from Renewable Lubricants works well in high and low-pressure hydraulic systems. It directly replaces mineral oil-based hydraulic fluids.

"Based on oil analysis, we find that, if you would normally change the hydraulic fluid at 1,000 hrs., we can get 1,200 hrs. with Bio-Ultimax 1000," says Ben Garmier, Renewable Lubricants. "That extra 20 percent frees up maintenance time and labor and keeps equipment in the field. There's less wear on equipment, and you get full use out of the fluid."

As a seventh-generation farmer, Garmier understands the value of using Bio-Ultimax 1000 in farm equipment. He appreciates that it's safer for both equipment and the environment. Its 450 F flashpoint is 200 F higher than mineral oil-based hydraulic fluids. At the lower flashpoint, if a hydraulic line breaks and sprays onto a hot engine, it can result in a fire. Likewise, if a line breaks and flows on the ground, Bio-Ultimax 1000 will naturally degrade.

Research showed the vegetable-based oil was cost-competitive, but didn't perform as well as pure synthetics. In many cases, a blend of the two provided options.

The products range from straight vegetable



**If a line breaks and flows on the ground, Bio-Ultimax 1000 will naturally degrade.**

oil to pure synthetics with blends in between. "We start with Bio-Fleet hydraulic fluid, which performs as well as most conventional hydraulic fluids found at Tractor Supply," says Garmier. "Bio-Ultimax 1000 is a step up, closer to synthetic performance."

Bio-Ultimax 1000 is available from various retailers. On the Renewable Lubricants website, a 1-gal. jug is priced at \$43.37, and a 5-gal. pail is priced at \$212.27.

Contact: FARM SHOW Followup, Renewable Lubricants, P.O. Box 474, Hartsville, Ohio 44632 (ph 330-877-9982; info@renewablelube.com; www.renewablelube.com).



**Oil Kaddee runs off a 115-volt 1/2-hp. motor and includes a 20-in. mesh stainless filter and an 8-ft. discharge hose with all quick tach fittings.**

## Oil Kaddee Makes Service Easy

The E-Zee Oil Kaddee aims to remove the dread of oil changes with a system that makes it clean and easy to drain and pump fluid from heavy-duty trucks and equipment.

"My father, Mark Gruber, created the E-Z Oil Kaddee in the early 1990's," says company spokesman Trevor Gruber. A farmer in Michigan, he owned a small fleet of trucks and was looking for something to solve the dirty mess of oil changes. Gruber worked through many prototypes and testing processes before inventing the slide-out design of the current Kaddee.

"The Kaddee is used for easy and clean oil changes but can also be used as a transfer pump for emptying fuel tanks, hydraulic oil tanks, or whatever else," says Gruber. "It's designed for anyone who changes oil in the agriculture, timber, or transport industries. To date, we've sold over 5,000 across the nation."

The team recently redesigned the Oil Kaddee. Says Gruber, "We went from an all-steel pan to a heavy-duty plastic made from recycled plastics. The frame was also all steel and changed to aluminum. The new Kaddee is much lighter to move around but just as heavy-duty."

It's easy to roll the Kaddee under trucks

or other equipment for easy draining. It can be used with everything from engine oil to hydraulic fluid, anti-freeze, and more, and it holds 20 gal. at a time for disposal or reuse by transporting the used oil to bulk storage. In this way, a previously tricky task becomes a one-person operation. You simply drain oil into the pan and pump it into a storage tank. The Kaddee can also be used as a fluid transfer pump.

The Kaddee runs off a 115-volt 1/2-hp. motor and includes a 20-in. mesh stainless filter and an 8-ft. discharge hose with all quick tach fittings. The overall Kaddee weighs 85 lbs. and measures 11 in. by 24 in. by 48 in.

The E-Zee Oil Kaddee retails for \$2,350 on the company website, with about \$85 for shipping throughout the U.S.

"We make each E-Z Oil Kaddee in the thumb of Michigan, and most of the product is sourced locally," says Gruber. "We have local farmers who still use theirs from 25+ years ago all around us."

Contact: FARM SHOW Followup, E-Zee Oil Kaddee, 1359 S. Quanicasee Rd., Reese, Mich. 48757 (ph 888-393-3645; info@ezeeoilchange.com; www.ezeeoilchange.com).