



Synthetic Farm Lubricants

Cost Savings and Improved
Performance for Farm Equipment



Courtesy of Deere & Company

Why Use Synthetics?

*Plain and simple: They're **better** than nonsynthetic lubricants. Synthetic lubricants are man-made products. They are chemically engineered, from the molecules up, and carefully formulated for specific lubrication tasks.*

*AMSOIL synthetic lubricants outperform and outlast nonsynthetic lubricants. They lubricate and protect better and longer, far beyond the limits of nonsynthetic products. Discover how premium-quality AMSOIL Products **SAVE MONEY**, and how they help you maximize your equipment life and your profits!*

AMSOIL Synthetic Lubricants

Make a Difference in Performance

Long-Lasting Service:

AMSOIL lubricants have a long service life. Non-synthetic lubes can break down from oxidation and heat. When that happens, they sludge-up, form deposits and have to be changed.

AMSOIL lubricants resist break-down, so they stay intact and run clean. This resistance to heat and oxidation prolongs the service life of AMSOIL synthetic lubricants, significantly extending drain intervals.

Low Temperature Fluidity/High Temperature Stability:

AMSOIL lubricants resist the effects of heat and cold far better than non-synthetic lubricants. AMSOIL synthetics will make the difference when starting an engine that's cold, and cooling an engine that's hot.

Rust and Corrosion Protection:

AMSOIL contains special additives to prevent rust and corrosion – a vital factor for equipment that sits idle or is stored for part of the year.

Anti-Friction:

AMSOIL lubricants are “super-slippery.” They are extremely effective in reducing friction and drag between moving parts, resulting in reduced wear, more efficient operation and better fuel economy.

Versatile For Most Applications:

In most cases, AMSOIL lubricants eliminate the need for specialty lubes. AMSOIL products meet or exceed the performance specifications of a wide variety of farm machinery.



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Keeps Farm Equipment Dependable





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AMSOIL Synthetic Greases

AMSOIL Synthetic Greases Outperform Ordinary Grease

AMSOIL Synthetic Greases are recommended for all types of farm applications. The Multi-Purpose, Heavy-Duty, Water Resistant and Semi-Fluid 00 Synthetic EP Greases each provide outstanding antiwear protection by significantly reducing friction and wear. Each is highly resistant to water washout and each imparts excellent rust and corrosion resistance.

Heavy-Duty Synthetic Grease:

Heavy-Duty Synthetic Grease (**GHD**) is a moly- fortified, high load-bearing, lithium complex, extreme pressure grease, formulated to provide exceptional lubrication and antiwear protection in heavy-duty applications.

Available in 16-oz. cans, 14-oz. cartridges, 35-lb. lugs, 120-lb. kegs and 400-lb. drums.

Multi-Purpose Synthetic Grease:

Multi-Purpose Grease (**GLC**) is a superior lithium complex grease that's especially suited for use with all types

of bearings (high or low speed). Multi-Purpose Grease is appropriate to any application where a high-quality grease is recommended.

AMSOIL Multi-Purpose Grease is also available in a convenient aerosol spray can that allows easy transportation and application. Spray Grease also allows precise application in hard-to-reach areas, and its distinctive dye lets you see exactly where it's been applied.

AMSOIL Multi-Purpose Grease is available in 16-oz. cans, 14-oz. cartridges, 35-lb. lugs, 120-lb. kegs and 400-lb. drums.

AMSOIL Multi-Purpose Spray Grease is available in 10½ fl. oz. spray cans.

Water Resistant Grease:

Water Resistant Grease (**GWR**) is ideal for application in wheel bearings, chassis and machinery where contact with water is common. It offers the thermal and oxidative stability, high viscosity index, extreme temperature performance

and outstanding protection expected from AMSOIL Greases, plus water washout resistance superior to any other grease available.

Available in 14-oz. cartridges, 35-lb. lugs and 120-lb. kegs.

Semi-Fluid 00 Synthetic EP Grease:

Semi-Fluid 00 Synthetic EP Grease (**GSF**) is a high-viscosity lithium complex semi-fluid grease (NLGI 00) formulated to lubricate and protect agricultural and commercial equipment. It provides superior protection and performance in shock-loading applications, and it is ideal as a problem-solving lubricant in leaky gear boxes and in applications that are difficult to service.

Available in 35-lb. pails and 120-lb. kegs. 400-lb. drums are available by special order.

Also available: AMSOIL Synthetic X-Treme Food Grade Grease (U.S.D.A. Code H-1, NLGI #2) and AMSOIL Series 2000 Racing Grease (GC-LB, NLGI #2 and NLGI #2EP).

AMSOIL Synthetic Motor Oils

Outstanding Performance At Extreme Temperatures

AMSOIL Flows in the Cold

Non-synthetic oils thicken rapidly as the temperature drops. In cold weather, this causes difficult starting as the engine fights to turn over against the semi-solid lubricant. Even if the engine starts, the cold, thick oil will not circulate immediately, which means some parts of the engine can run for up to five minutes without any lubrication at all.

AMSOIL *stays fluid* at much lower temperatures. In cold weather, AMSOIL permits easier starting and instant lubrication throughout the entire engine. During starts and warm-ups, critical engine surfaces slide, protected by a tough, reliable film of oil between them.

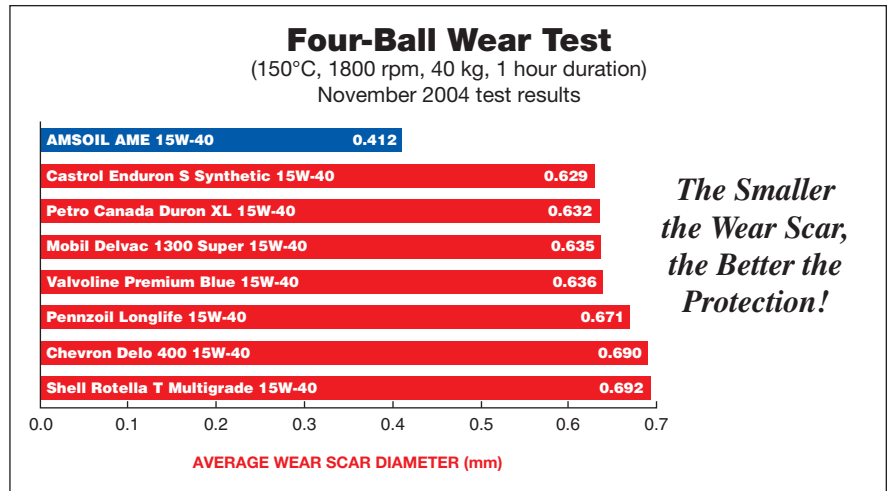
AMSOIL Takes the Heat

A hard-working engine generates tremendous heat, a serious problem for non-synthetic lubricants. Oil thickening and oil consumption occur when high temperatures evaporate the lighter, more volatile portions of petroleum-based oil. Heat also causes oxidation, forming gummy sludges and varnishes.

AMSOIL is *heat-stable*. AMSOIL resists volatile evaporation and thickening at high temperatures. It resists oxidation and inhibits the formation of engine deposits.

Low volatility means reduced oil consumption. Reduced thickening promotes better fuel economy (because thick oil causes internal engine resistance) and better engine protection, especially during cold start-ups when thick oil doesn't circulate properly.

AMSOIL actually cools hot engines and gear boxes too, reducing stress on components and extending equipment life.



Availability:

AMSOIL synthetic motor oils are available in quart, gallon and 2.5-gallon containers, and 30- and 55-gallon drums.

Performance:

AMSOIL Synthetic Diesel Oils are fuel efficient, super-heavy-duty, multi-viscosity lubricants for use in light and heavy-duty diesel and gasoline

engines. Their synthetic base stocks and proven long-life additives assure performance, economy, and outstanding protection over extended drain intervals.

Because they meet and exceed the lubrication demands of virtually every light and heavy-duty diesel and gasoline engine, farmers with a variety of vehicles need only stock one of

these "all-engine" oils for their vehicles and equipment.

AMSOIL Series 3000 Synthetic 5W-30 Heavy Duty Diesel Oil (HDD)

AMSOIL SAE 15W-40 Synthetic Heavy Duty Diesel and Marine Motor Oil (AME)

AMSOIL SAE 15W-40 Synthetic Blend Heavy Duty Motor Oil (PCO)

AMSOIL Synthetic 10W-30/SAE 30 Heavy Duty Diesel Oil (ACD)

AMSOIL Synthetic 5W-40 Premium Diesel Oil (DEO)

API Service CJ-4, CI-4 Plus, CF, CF-2, SL, CH-4, CG-4, SL



AMSOIL Synthetic Gear Lubes

**(API GL-5/MT-1)
Extreme Pressure
Synthetic Gear Lubes
75W-90, 80W-90
75W-140, 80W-140**

Farmers need to cut costs wherever and whenever they can. AMSOIL Synthetic Gear Lubes save money by making drive trains operate as efficiently as possible, for as long as possible.

Reduce Friction:

AMSOIL Synthetic Gear Lubes are blended with outstanding anti-friction properties. Friction in transmissions and differentials steals energy. Lost energy translates into less power and poor fuel economy. The superior “slipperiness” of AMSOIL Gear Lubes makes gear-boxes run cooler and easier. Components move with less resistance, even under heavy loads. *Transmission parts last longer* and the saved energy is transmitted to the wheels, allowing *maximum use of every gallon of fuel*.



Courtesy of Deere & Company

Reduce Wear:

The outstanding extreme pressure and anti-wear properties of AMSOIL Synthetic Gear Lubes keep wear at an absolute minimum. The results: *greater equipment reliability* and less money spent on repairs, replacement



parts, and costly down-time. AMSOIL helps keep equipment in the field and out of the shop!

AMSOIL Cold Flow Improver



DFF

AMSOIL Cold Flow Improver (DFF) for diesel fuel is designed for use in Ultra Low Sulfur Diesel fuel (ULSD), yet works well with conventional fuels. It functions by modifying wax crystal formation at low temperatures to depress the pour point and improve cold flow filtration properties. AMSOIL Cold Flow Improver contains jet fuel-type deicer to help prevent ice formation in fuels contaminated with water. It is recommended for use with diesel engines and is compatible with diesel exhaust particulate filters (DPFs). AMSOIL Cold Flow Improver is excellent for use with AMSOIL Diesel Concentrate and AMSOIL Cetane Boost Additive.

AMSOIL Diesel Concentrate



ADF

AMSOIL Diesel Concentrate (ADC) provides maximum diesel operating efficiency. It compensates for the variances in quality of different fuels (including biodiesel) and the deficiencies of today's Ultra Low Sulfur Diesel fuel (ULSD) for better engine operation. AMSOIL Diesel Concentrate cleans dirty injectors, improving fuel economy by up to five percent and restoring horsepower to like new. The net savings on fuel expense can result in no additional cost to vehicle operation. AMSOIL Diesel Concentrate lubricates fuel pumps and injectors, minimizes soot loading, reduces cylinder wear and retains TBN longer. AMSOIL Diesel Concentrate also improves water tolerance, and works as a heating oil improver and fuel stabilizer.

AMSOIL Cetane Boost



ACB

AMSOIL Centane Boost (ACB) improves the ignition quality of fuel in all diesel engines by increasing fuel cetane three to seven numbers. ACB shortens the ignition delay period between fuel injection and combustion for improved diesel combustion efficiency and increased diesel engine power. ACB also enables diesel fuel to be ignited at a lower ambient temperature, neutralizing the white smoke common with cold starts. Engine knock is suppressed because ACB inhibits fuel pre-ignition.

AMSOIL Synthetic Tractor Hydraulic/Transmission Oil

Improves Performance and Reliability... Saves Time and Money

Most hydraulic/transmission failures are caused by contamination or breakdown of the hydraulic fluid. Excess heat is a major enemy of hydraulic/transmission fluids. Non-synthetic hydraulic fluids are likely to oxidize when exposed to the extreme environment of tractor transmissions and hydraulic systems. Oxidation leads to the formation of acids, varnish and sludge deposits. This can thicken oil, reduce lubricating abilities, accelerate wear, damage hoses and lead to further overheating and catastrophic component failures.

AMSOIL Tractor Hydraulic/Transmission Oil (ATH)

is made up of thermally stable and chemically resistant synthetic base stocks, and premium-quality additives.

AMSOIL ATH is highly resistant to heat breakdown and chemical changes. It is a better "carrier" for heat transfer, so equipment runs 20° to 50° cooler. All of this means more efficient and economical operation, with *less maintenance* and profit-stealing downtime.

The durability of **AMSOIL ATH** allows *drain intervals two to three times longer* than those of conventional fluids. This saves time, effort and money because you buy fluid less often. Cooler operation with AMSOIL ATH *increases fuel economy and equipment life*, especially for hoses, which are susceptible to heat damage.

AMSOIL ATH also provides superior protection against rust and corrosion, a critical form of protection during equipment storage.



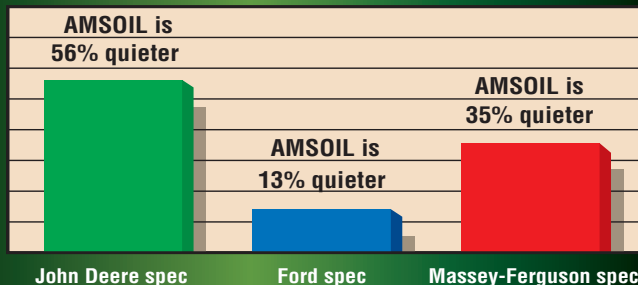
AMSOIL Synthetic Tractor Hydraulic/Transmission Oil is "all weather" oil that operates over a wide range of temperatures. It has a high viscosity index to maintain its lubricity at high operating temperatures, and it flows at temperatures as low as -47°F for

improved equipment operation and wear protection. It exceeds the most demanding "all weather" specifications of both Ford New Holland FNHA 2-C-200 & 2-C-201 and John Deere J20C & J20D, eliminating the need for seasonal oil changes.

TIRED OF BRAKE CHATTER?

Laboratory tests (John Deere JDQ-40, Ford 7710, Massey-Ferguson 285) prove AMSOIL Synthetic Hydraulic/Transmission Fluid quiets wet brakes. AMSOIL ATH quiets chatter... and the competition!

AMSOIL ATH surpasses equipment manufacturers' minimum requirements for wet brake chatter





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What You Get With AMSOIL

(1) Quality: a full line of synthetic lubricants and ultra-fine filters whose performance and durability is second to none. AMSOIL quality means increased reliability, more economical operation, and less maintenance and downtime. Using AMSOIL saves time, aggravation and MONEY!

(2) Service: conscientious and dedicated attention to detail from AMSOIL INC. and your servicing AMSOIL Dealer.

Your independent AMSOIL Dealer uses AMSOIL products himself, so he knows the benefits and is eager to show you how *you* can profit using AMSOIL. His confidence and enthusiasm are direct results of the quality of AMSOIL products and the integrity of AMSOIL INC.

AMSOIL INC. has a toll-free number so customers can order AMSOIL products directly, and offers a convenient credit plan for commercial accounts. The AMSOIL Technical Services Department is always ready to answer your lubrication or filtration questions.

(3) Expertise: the know-how that comes from three decades of experience tailoring AMSOIL products to meet customers' needs.

AMSOIL INC. manufactured the **first** synthetic motor oil *in the world* to pass American Petroleum Institute (API) service qualification tests. AMSOIL is "The First in Synthetics." The leadership of AMSOIL in developing state-of-the-art synthetic lubrication and filtration solutions provides the consumer with a choice found nowhere else — the best lubrication that science has to offer.

*If you're looking for ways to add
PROFIT to your business by cutting your
operating costs, come to **AMSOIL!***

AMSOIL Saved These Farmers Time and Money!

Wallace Dunn, Richfield, KS

I started using AMSOIL in the spring of 1983. Using AMSOIL **SAE 30** Diesel Oil and the AMSOIL **By-Pass** Oil Filter, we run 900 hours between oil changes on the 160 HP Case and 700 hours in our 120 HP Deutz Allis air-cooled. I use the AMSOIL **20W-50** Synthetic Oil in my Massey 510 combine on a two-year oil change schedule. I am very pleased I was introduced to AMSOIL Products.

Harold Isaac, Hooker, OK

I use AMSOIL **Synthetic Engine Oil**, Synthetic Multi-Purpose **Hydraulic Fluid** and the AMSOIL **80W-90** Synthetic Gear Lube in my two Deere tractors, my 855 Steiger and my N6 Allis combine. I also use the AMSOIL **By-Pass** Oil Filters and change oil once a year. Our farm uses nothing but AMSOIL and we are happy with the results. There is a large difference in performance between petroleum oil and AMSOIL, as well as a lot of money and time saved.

Warren Bowker, Richfield, KS

I started using AMSOIL in 1975, and right off I could see the difference, so I put it in everything on the farm. I use AMSOIL **10W-40** Synthetic Oil in my six tractors – three Internationals and three John Deeres – and in my Massey combine. We use the AMSOIL **15W-40** in our two semis, a Mack and a Detroit engine, along with the

related AMSOIL Synthetic Lubes in the transmissions and differentials. AMSOIL **75W-90** Gear Lube is in the irrigation gear heads and this has lowered the fluid temperatures considerably. We are 100% AMSOIL and plan on staying that way.

Steve Patterson, Copeland, KS

One of our irrigation engines runs all year with no oil change using AMSOIL and AMSOIL **By-Pass** Oil Filter. AMSOIL **75W-90** Synthetic Gear Lube is used in the gear heads on a five-year change period. My records show that I'm saving 58 cents on the dollar on lube cost between the cost of AMSOIL and petroleum lubes.

Francis and Rock Ormiston, Kismet, KS

We have been using AMSOIL totally since 1974. We farm separately but do, on occasion, interchange some machinery. Between us we have four large 4-wheel drive John Deere tractors from 200 to 400HP. We use AMSOIL in all the tractors and the combine, and the AMSOIL **By-Pass** Filters, too. We change oil once a year in the early spring. We have not figured our real savings by using AMSOIL, but for sure it's a strong 50 cents on the dollar over petroleum oil, and saving a lot of labor on very little downtime. There is no way we could afford to go back to petroleum, even if it was given to us free.

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AMSOIL products and Dealership information are available from your local AMSOIL Dealer.

