

Imperial Oil
237 Fourth Avenue SW, Calgary, Alberta T2P 3M9

For more information: 1-888-968-3776
Technical Support: 1-800-662-4525

imperialoil.ca

mobildelvac.ca

mobil.ca

Mobil, Delvac, the Mobil logotype and the ExxonMobil logotype are trademarks of Exxon Mobil Corporation or one of its subsidiaries. Imperial Oil is a trademark of Imperial Oil Limited. Imperial Oil, licensee.

Printed in Canada 12/2011

For powerful gains in performance and productivity

**Put the power of Mobil lubricants
to work for your business.**



Mobil lubricants and Imperial Oil: The power you need to help keep your business productive and problem-free.

Choosing precisely the right lubricant for every application will have a powerful impact on your company's productivity. This booklet will introduce you to:

- A selection of Mobil lubricants especially designed for today's productivity-driven conditions. Mobil product technology helps equipment stand up to today's larger payloads, higher operating temperatures and extended service and lubrication intervals;
- Imperial Oil's expertise in facing the challenges of Canada's harsh climate – along with the global experience of ExxonMobil – enables us to help you choose exactly the right product for your application and weather conditions;
- Case histories, showing how Mobil helps customers become more productive and profitable. Read on, and see what we can do for your business!

Resource industries across Canada continue to draw upon improvements in equipment technology to push productivity to new heights. Close ties between Mobil product engineers and engine manufacturers around the world ensure that our lubricants are always at the leading edge of technology. The experience of Imperial Oil helps customers choose the right products for the harsh conditions of Canada's challenging climate.



“Our dedication to providing the Lowest Total Cost of Ownership (TCO) can work wonders for your productivity!”

Greg Peters – Account Executive

Our pledge goes well beyond industry-leading value. We also promise – and deliver – industry-leading technical service, research and improvement tools. All this adds up to industry-leading performance,

minimizing our customers' risk of unscheduled shutdowns, while maximizing their opportunities for gains in productivity.

Why many companies in Canada's mining, forestry, construction and energy industries all trust the power of Mobil lubricants to minimize downtime and maximize productivity.

Boosting productivity when you're up against some of the harshest weather conditions on earth represents an enormous challenge.

Fortunately, you can rely on the power of Mobil products to get the job done.

On the following pages, you'll find the lubricants recommended for your type of equipment. You'll also see why Mobil lubricants are recommended by more original equipment manufacturers than any other brand and why customers trust Mobil products to reduce overall maintenance cost and boost productivity.

As your supplier of Mobil lubricants, Imperial Oil offers additional benefits, including:

- An in-depth knowledge of your business, your equipment and the challenges you face;
- Our Field Engineering Support team, whose members travel to customer sites, troubleshooting, delivering seminars and helping to optimize drain intervals, to reduce oil consumption and help customers achieve sustainability targets;
- Our commitment to your complete satisfaction and our pledge of “lowest total cost of ownership.”

Extended-drain program saves Teck Coal \$300,000 a year.

When Imperial Oil suggested that Teck Coal could improve productivity by extending oil drains, the customer was initially concerned about warranty issues on its Detroit Diesel-powered Komatsu trucks.

As a solution, trucks were equipped with oil-reserve systems to significantly increase the amount of

lubricant in circulation. The oil, Mobil Delvac 1300 Super, lived up to its name as a long-life lubricant, enabling drain intervals to extend from 500 to 750 hours. Savings on oil and service totalled \$330,000 a year.



“We have certainly seen an increase in equipment availability and the savings go far, far beyond our savings in maintenance costs alone.”

Mark Carey, Mechanical Engineer,
Teck Coal Fording River



The tougher the climate, the harder the work, the more you need the power of Mobil synthetics.



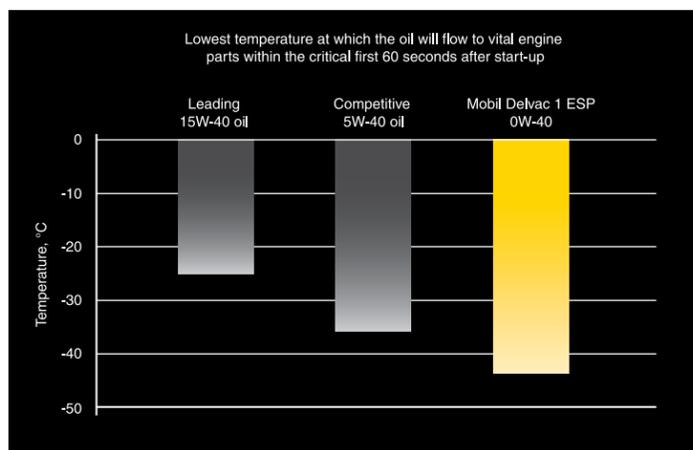
The development of Mobil Delvac 1 ESP 0W-40 ranks as one of the great achievements in our proud history of protecting heavy-duty engines. Here is a product that can strengthen productivity all year round. Mobil Delvac 1 ESP 0W-40 has the power to make your operation more efficient by:

- Enabling speedy cold morning start-ups for more flexibility in scheduling and fewer delays in getting equipment up and running;
- Protecting engine components from premature wear during the critical 60 seconds immediately following start-up. Even in temperatures as low as -43° C,

Mobil Delvac 1 ESP 0W-40 flows rapidly to distant parts of your engine, preventing bare metal contact, extending engine life and greatly reducing the risk of damage and delays. Mobil Delvac 1 ESP 0W-40 delivers exceptional performance across a wide temperature range. It exceeds the stringent requirements of API CJ-4.

Read on to see how Mobil Delvac 1 ESP 0W-40 also delivers extraordinary protection at high temperatures, even in severe service and under high load.

Cold weather performance is critical to the life of your engine and the productivity of your business. When your oil is too thick to pump freely in extremely cold conditions, the result may be metal-to-metal contact in your engine. When surface metals wear away, softer and even more vulnerable metals may be exposed, leading to the risk of breakdown.

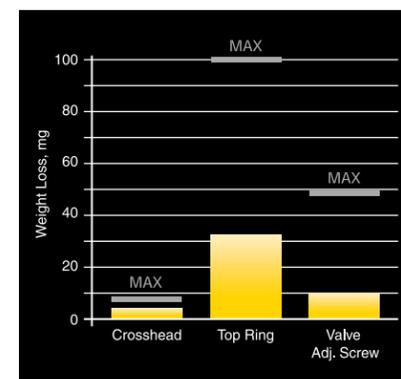


Severe conditions demand supreme performance. Mobil Delvac 1 ESP 0W-40 delivers year-round protection for strong productivity and long engine life.

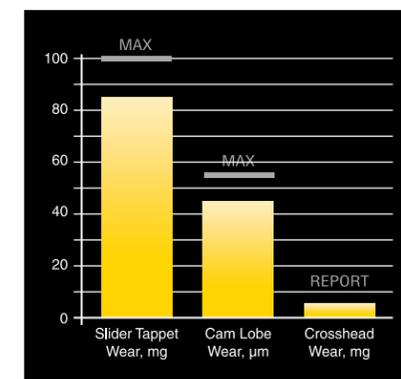
Synthetic supreme-performance Mobil Delvac 1 ESP 0W-40 is designed to exceed the requirements of engines incorporating EGR and ACERT emission-control systems. Both systems create a hotter, more hostile environment for engine oils, which have to handle the heat as never before.

Mobil Delvac ESP 1 0W-40 maintains a sturdy and stable protective film through severe service under a wide range of conditions. This API CJ-4 lubricant has proven to be more effective at controlling wear than a leading 15W-40 heavy-duty engine oil. The

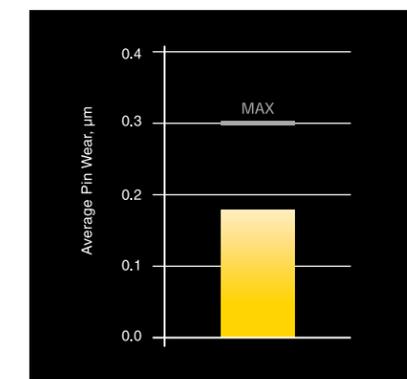
remarkable durability of Mobil Delvac 1 ESP 0W-40 greatly reduces the risk of maintenance problems and, in many cases, allows oil drain intervals to be safely extended. This provides the opportunity for further gains in productivity, while reducing lubricant costs and used oil disposal fees.



More powerful protection for valve trains under high soot load, as confirmed in the Cummins ISM Wear Test. The test measures a lubricant's ability to control valve-train wear, top ring wear, sludge deposits and oil filter plugging.



Longer life for camshaft and tappet interface. The Cummins ISB Wear test covers 350 hours in two stages. Stage 1 generates excess soot. In Stage 2 the engine runs under cyclic conditions to deliberately encourage wear of the valve train.



Well-above-average protection for the axle of the camshaft roller follower, a component particularly vulnerable to wear under heavy load conditions. The Roller Follower Wear Test confirms the ability of Mobil Delvac 1 ESP 0W-40 to protect well beyond the requirements of industry standards.



“Mobil Delvac ESP 0W-40 promotes sustainability while you’re boosting productivity for your business.”

Ray Rolston – Field Engineering Specialist

Mobil Delvac 1 ESP 0W-40 benefits:	Help your business through...	Promote sustainability by...
Faster cold morning start-ups and warm-ups	Savings on fuel and non-productive equipment	Preserving non-renewable resources, reducing emissions
Longer oil life	Lower consumption of lubricant and filters, savings in used oil disposal	Preserving non-renewable resources
Reduced fuel consumption	Savings in fuel costs	Preserving non-renewable resources
Longer lasting equipment	Fewer non-scheduled breakdowns, savings on repairs and replacement parts	Preserving non-renewable resources and the energy consumed in manufacturing replacement parts.

Mobil Delvac Elite 222 0W-30: Rounding out our complete range of synthetic heavy-duty engine oils.

For off-highway applications calling for a 0W-30 grade lubricant, Mobil Delvac Elite 222 0W-30 delivers excellent year-round performance along with the extra stability and cold weather start-ups associated with synthetic heavy-duty engine oil.

Mobil Delvac Elite 222 0W-30 strengthens productivity by promoting longer engine life and fuel economy. It is recommended for a wide range

of applications, including those where engines operate at low speed and under high load. Mobil Delvac Elite 222 0W-30 is formulated using API CJ-4 additive technology. It delivers excellent performance in 4-stroke diesel engines, including low-emission engines with Exhaust Gas Recirculation (EGR) and/or Diesel Particulate Filters (DPF).

Why Canada's resource and construction industries trust their heavy-duty engines to Mobil Delvac 1300 Super.



Where the highway ends, the power of Mobil Delvac 1300 Super drives on, promoting clean, long-life engines and trouble-free performance.



Mobil Delvac 1300 Super was engineered to deliver extra-high performance to engines in severe service. The formulation is the result of close cooperation between Mobil and original engine manufacturers (OEMs). Optimized base oils blended with high-performance additives and detergents help ensure:

- Exceptional soot control, promoting cleanliness, efficiency and long engine life;
- Excellent wear protection with minimal scuffing and bore polishing;

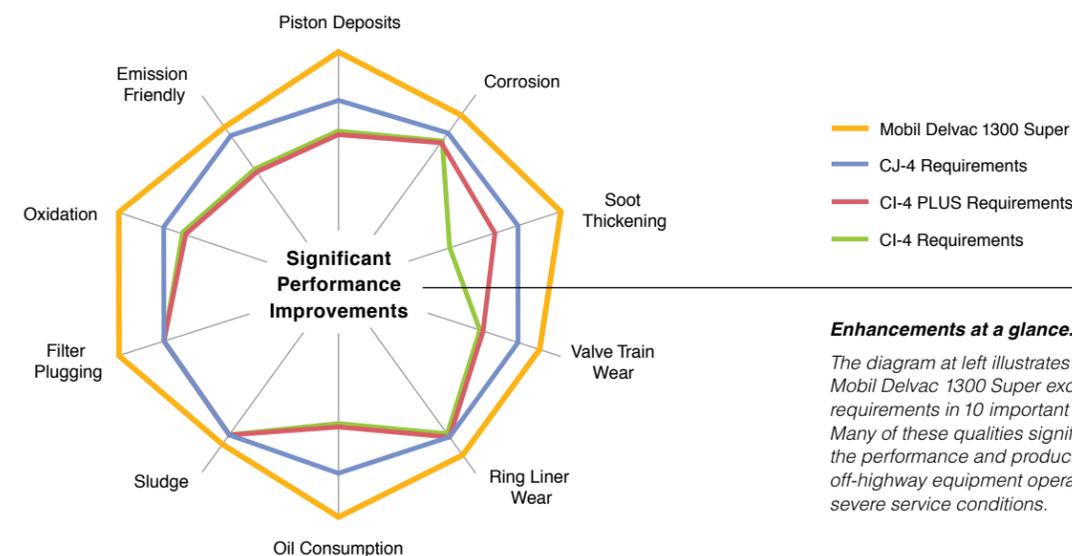
- Thermal and oxidative stability, for effective control of sludge and deposits;
 - Outstanding TBN reserve, guarding against corrosion and enhancing opportunities for productivity gains by extending oil drains;
 - Stay-in-grade shear stability, helping to maintain viscosity and a powerful film of protection.
- Mobil Delvac 1300 Super is available in two SAE viscosity grades: 10W-30 and 15W-40.

“More than ever before, Canadian jobsites need long engine life to drive up productivity. More than ever before, they need the power of Mobil Delvac 1300 Super.”

Maurice Dionne – Field Engineering Specialist

Owners of heavy-duty off-highway equipment have never had more powerful reasons for switching to Mobil Delvac 1300 Super. As businesses across Canada make every effort to maximize productivity, Mobil Delvac 1300 Super provides excellent opportunities to control costs and operate with improved efficiency.

Equipment owners benefit from cleaner engines with fewer deposits through improved soot control. These qualities also promote longer oil life which – as confirmed by the case histories shown on these pages – may enable oil drain intervals to be safely extended, boosting productivity even further.



Enhancements at a glance.

The diagram at left illustrates how Mobil Delvac 1300 Super exceeds API CJ-4 requirements in 10 important categories. Many of these qualities significantly impact the performance and productivity of today's off-highway equipment operating under severe service conditions.



Imperial Oil greets new mining customer with savings of \$350,000 a year* thanks to Mobil Delvac 1300 Super.

“The chemistry of Mobil Delvac 1300 Super delivers superior wear protection and oxidation control. Those are two key points that make it a great candidate for longer oil drains.” That was the reasoning behind a recommendation from Field Engineering Specialist Maurice Dionne to his new customer, ArcelorMittal Mines Canada. The company had been taking haul trucks out of service every 500 hours for maintenance and oil change. Dionne recommended used oil analysis to monitor a program of extended drain intervals (to 750-850 hours).

*Estimated annual savings: \$350,000.

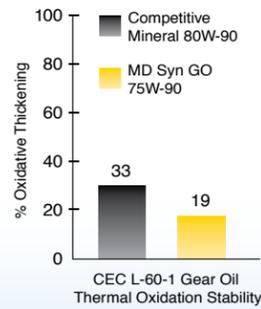


Mobil Delvac 1300 Super increases oil drain intervals by 50 percent, for yearly savings of \$210,300.

For the Alberta company running 700 cement trucks, extended oil drain intervals held great appeal, including increased equipment availability and savings in lubricant, filters and labour. To proceed safely, Imperial Oil recommended moving in stages. Glenn Thompson, Field Engineering Specialist, says, “We took time to evaluate every 100-hour increase.” Oil samples were drawn from test units at approximately 600, 750 and 900 hours and monitored for wear metals.” The customer now enjoys annual savings exceeding \$210,300.



Trust Mobil Delvac Synthetic Gear Oil to keep drivetrains safe and productive, even under high loads and extreme conditions.



Molecular design control gives Mobil Delvac Synthetic Gear Oil excellent oxidative stability to minimize deposits. This may enable longer oil drain intervals to significantly boost productivity.

Mobil Delvac Synthetic Gear Oil 75W-90 and 80W-140 are designed to promote improved productivity for off-highway equipment by:

- Maximizing gear and bearing life through exceptional resistance to deposits;
- Protecting components against low-speed/high-torque wear and high-speed scoring;
- Retaining viscosity and film strength through outstanding shear stability;
- Prolonging component life by delivering excellent control against rust and corrosion;

- Optimizing friction-reducing properties, which may well improve fuel economy;
- Maintaining a high resistance to foaming, enabling a strong and long lasting film of protection.

Mobil Delvac Synthetic Gear Oil 75W-90 and 80W-140 are approved for final drives covered by Eaton Roadranger (E500) and ArvinMeritor Extended Warranties of 750,000 miles, with extended oil drains of 500,000 miles.



“Fuel economy – it’s just one of six good reasons to consider a synthetic gear oil.”

Diane Caron – Senior Account Executive

Canada’s resource and construction industries have great opportunities to cut costs and improve productivity by switching to Mobil Delvac Synthetic Gear Oils. In addition to raising the possibility of improved fuel economy, they also deliver outstanding wear protection, deposit control, rust and corrosion protection and resistance to foaming.

On very cold mornings, their low-temperature fluidity helps minimize component wear and eliminates the need for work-delaying warm-ups.

Mobilube HD Plus: Extra-high performance for extra-dependable gear protection and productivity.

Mobilube HD Plus gear oils are engineered to meet the demands of off-highway transmissions, axles and final drives subjected to extreme pressures and shock loading. They deliver:

- Excellent performance in applications requiring an API GL-5 lubricant;
- Thermal and chemical stability to minimize deposits and extend gear and bearing life;

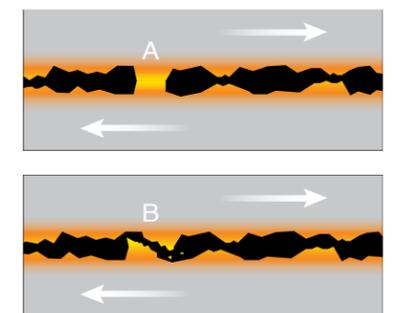
- Increased load-bearing properties to protect against low-speed/high-torque wear and high-speed scoring;
- Effective foam resistance to maintain a strong film of protection.

Available in three multigrades: Mobilube HD 75W-90, Mobilube HD 80W-90 and Mobilube HD 85W-140.

Mobilube HD Extra: Protection above and beyond the industry’s top classification.

The highest current rating for an industrial gear oil is API GL-5. Mobilube HD Extra lubricants are engineered to provide even greater protection for specific applications. Although their classification – once known as API GL-6 – is no longer active, Mobilube HD Extra lubricants are very effective in guarding components with very high pinion offset and/or extreme shock loading.

These gears typically require greater protection against scoring than that provided by API GL-5 gear oils. Other qualities are comparable to those of the Mobilube HD Plus series, described above. Two viscosity grades are available: Mobilube HD Extra MG 75W and Mobilube HD Extra 80W-140.



How EP protection and the right viscosity are essential to the protection of your gears.

The wrong choice of gear oil can lead to gear teeth instantaneously welding together (A) then, as gear rotation continues, tearing apart again (B) leaving two very rough surfaces and the potential for serious problems that could jeopardize equipment and productivity.

Productivity on the move: Find out more about the lubricants available for your equipment and get the power of Mobil products working for your business.

Choosing lubricants carefully helps you maximize productivity and minimize your impact on the environment.*

Many of the Mobil products in this guide can help your business to make powerful gains in performance and productivity. They can also help you achieve sustainability objectives. Some examples:

- Longer lasting lubricant, which reduces overall oil consumption and used oil disposal;
- Greases that resist breakdown and washout, lowering the risk of contaminating worksites and nearby streams;

- Hydraulic oil and other lubricants enabling faster cold morning warm-ups, saving fuel and reducing emissions;
- Synthetic lubricants that reduce friction, boosting operating efficiency and fuel savings;
- All lubricants that effectively protect equipment, minimizing the need for replacements and spare parts, and the energy required to produce them.

Hydraulic Fluids (Page 16)

Mobil SHC 500 Series
 Mobil DTE 10 Excel
 Mobil Univis N-C
 Mobil Nuto H-C

Greases (Pages 18-19)

Mobil Epic EP Moly
 Mobil Epic MQ
 Mobil Centaur Moly 1
 Mobilgrease XHP Mine Series
 Mobil Unirex EP 2
 Mobil Unirex EP 1 Moly



Coolant /Antifreeze (Page 17)

Mobil Delvac Extended Life Coolant /Antifreeze
 Mobil Delvac Extended Life 50/50 Coolant/Antifreeze
 Mobil Delvac Extended Life 55/45 Coolant/Antifreeze

Mobil Heavy Duty SCA Precharged Coolant/Antifreeze
 Mobil Heavy Duty SCA Precharged 50/50 Coolant/Antifreeze
 Mobil Heavy Duty SCA Precharged 60/40 Coolant/Antifreeze
 Mobil Heavy Duty SCA Precharged 55/45 Coolant/Antifreeze

Engine Oils (Pages 4-7)

Mobil Delvac 1 ESP 0W-40; 5W-40
 Mobil Delvac Elite 222 0W-30

Mobil Delvac 1300 Super 15W-40; 10W-30

Gear Oils (Pages 8-9)

Mobil Delvac Synthetic Gear Oil 75W-90; 80W-140
 Mobilube HD Plus MG 75W; 80W-90; 85W-140
 Mobilube HD Extra MG 75W; 80W-140

Transmission and Drivetrain Lubricants (Pages 12-15)

Mobiltrans AST Extra 20W
 Mobiltrans AST
 Mobiltrans AST 30
 Mobiltrans HD 10W; 30; 50

Mobil Delvac Synthetic Final Drive & Axle Oil
 Mobil Delvac Synthetic ATF
 Mobil Delvac Synthetic Transmission Fluid 50
 Mobilube XFD 50
 Mobil Hydraul Extra
 Mobil Hydraul 50; 56

* This page is intended as a general guide. The list of products is not intended as a specific recommendation for any particular piece of equipment. Applications differ from manufacturer to manufacturer and from model to model. For specific recommendations for your equipment, please contact your Imperial Oil sales professional.



Today's drivetrains boost productivity through higher payloads and improved control. Mobiltrans AST helps deliver every benefit you've paid for – even in severe service.

Mobiltrans AST – the AST stands for All-Season Transmission – is an extra-high-performance 10W-40 lubricant. (Two other viscosity grades are available.)

Mobiltrans AST is formulated with semi-synthetic basestocks and highly advanced additives for optimal year-round performance in powershift transmissions, gearboxes, clutches, final drives and hydraulic systems. It is engineered to provide significant gains in productivity, enabling the higher loads, greater speed and smoother control that

today's drivetrains are designed to deliver. Excellent load-carrying, antiwear and EP properties help to minimize wear, extend equipment life and lower the risk of breakdown.

Also available: Mobiltrans AST 30, which is recommended for temperatures as low as -35° C, and Mobiltrans AST Extra 20W, which remains productive at temperatures as low as -45° C.

The power of the Mobiltrans AST Series can make off-highway operations more productive – and more profitable – all year round. Synthetic-blend basestocks and uniquely designed additive systems combine to save fuel year-round and deliver superior load-carrying and EP wear protection.



Mobiltrans HD 10W, 30 and 50 are engineered to meet the rigorous specifications of Caterpillar TO-4. These exceptional lubricants are engineered for optimal performance in the powershift transmissions, gearboxes and final drives of construction, forestry, agricultural and mining equipment operating across Canada, including those in severe service.



Trust the Mobiltrans HD Series for greater productivity from powershift transmissions, gearboxes and final drives.

The Mobiltrans HD series is formulated to deliver extra-high performance for the transmissions, gear boxes, final drives and hydraulic systems of heavy-duty off-highway equipment. Mobiltrans HD 10W, 30 and 50 are engineered to meet the stringent requirements of the Caterpillar TO-4 specification. Advantages include:

- Balanced static and dynamic frictional qualities for clutch friction retention and slippage control, anti-chatter brake performance and longer life for clutch and brake;
- Excellent load-bearing qualities with powerful antiwear properties;

- Outstanding control of deposits for longer seal life and the potential for extended service intervals;
- Protection against corrosion of copper and copper alloys;
- Excellent thermal and oxidation stability for greater protection against wear in high-pressure hydraulic pumps.



“Some customers – even those with considerable experience – are surprised that a high-performance lubricant can make such a difference to productivity where a TO-4 or TO-4M lubricant is needed.”

Dave Dingle – Account Manager

The drivetrains of today's off-highway equipment have been designed to deliver truly significant gains in productivity. Newer units carry higher loads at higher speeds, give operators more accurate control across a wide range of applications, even under extreme conditions. The high-performance

transmission and drivetrain lubricants described on these pages are key to those productivity gains. Their improved friction control, wear protection and shear stability allow owners to enjoy all the benefits made possible by their new equipment.



“The power of Mobiltrans HD technology is vital to any off-highway business looking to strengthen productivity by keeping equipment running at peak performance.”

Stephanie Jaworski – Field Engineering Specialist

With four grades to choose from, our customers can select the Mobiltrans HD product that most precisely suits the needs of their equipment and conditions. Every grade meets the Caterpillar TO-4 specification and delivers the load-carrying properties vital to

trouble-free performance and longer life for transmissions, gearboxes and final drives. For an outstanding product that meets Caterpillar's FD-1 specification, just turn the page!



Mobil Delvac Synthetic Final Drive & Axle Oil: Protecting heavily loaded gears and axles across a wide range of temperature.

Mobil Delvac Synthetic Final Drive & Axle Oil (FDAO) blends synthetic base oil with a potent additive system for equipment in severe service year round. This highly advanced chemistry helps protect drives and differentials from fatigue and premature wear, even when subjected to heavy loads and shock loads.

The high viscosity index of Mobil Delvac Synthetic Final Drive & Axle Oil enables heavy equipment to operate safely across a wide temperature range, with minimal warm-up time even on bitterly cold mornings. Not recommended for transmissions or other applications containing friction materials. Meets Caterpillar FD-1 requirements.

Mobil Delvac Synthetic ATF: Smooth shifting and power transfer, with excellent wear protection for automatic transmissions.

Mobil Delvac Synthetic ATF is recommended by Allison Transmission, Inc. and meets the Allison TES-295 specification. Synthetic base oils and advanced additives help protect automatic transmissions against premature wear, even in severe service.

While this fluid performs in ambient temperatures as low as -54° C, its thermal stability retains oil viscosity at very high operating temperatures. Mobil Delvac Synthetic ATF promotes smooth shifting and power transfer, and increased transmission efficiency, contributing to improved fuel economy.

Mobil Delvac Synthetic Transmission Fluid 50: Year-round protection and productivity for manual transmissions.

Mobil Delvac Synthetic Transmission Fluid 50 is formulated to deliver maximum protection and longer life for heavy-duty manual transmissions. This fluid is exceptionally well suited for rigorous off-highway applications and challenging weather conditions, including wide swings in temperature.

Mobil Delvac Synthetic Transmission Fluid 50 provides excellent load-carrying and antiwear performance. Exceptional shear stability and high resistance to deposit formation promote clean components and may lead to enhanced productivity through longer oil drain intervals.

“Trust Mobil Hydraul and Hydraul Extra: Exceptional protection and smooth performance for your drivetrain, wet brake, wet clutch and hydraulics.”

Gaston Coulombe – Field Engineering Specialist



The Mobil Hydraul series of high-performance tractor fluids was developed for agricultural and other off-highway applications calling for a single multipurpose fluid for transmission, differential, final drive, wet brake, wet clutch and hydraulics. Mobil Hydraul fluids contain potent antiwear additives to help extend equipment life and promote productivity by minimizing unscheduled downtime. Optimal frictional properties help control wet-brake chatter. Excellent thermal and oxidation stability lessens the risk of deposits and helps extend seal life, as well as the life of the lubricant.

Mobil Hydraul 50 and 56: Year-round antiwear protection for equipment in agriculture, construction, forestry and mining.

Mobil Hydraul 50 and Mobil Hydraul 56 are both formulated with hydrocarbon basestocks and a performance-proven additive system. Their exceptional versatility as multipurpose fluids helps simplify inventories.

Mobil Hydraul 56 provides all-season performance down to -25° C. Mobil Hydraul 50 is recommended for temperatures as low as -35° C.

Mobil Hydraul Extra: Enhanced productivity, year-round protection and speedy cold morning warm-ups.

The synthetic-blend formulation of Mobil Hydraul Extra makes it an excellent choice for agricultural and other applications where equipment endures severe service through wide swings in temperature.

With an operating temperature range of -35° C to 100° C, Mobil Hydraul Extra enhances productivity by minimizing cold morning warm-ups and helping components stay clean and trouble-free.



Mobilube XFD 50 saves o-ring seals, boosts productivity at ArcelorMittal Mines Canada.

Switching to Mobilube XFD 50 extra-high-performance drivetrain lubricant contributed to significant maintenance savings and a sharp increase in equipment availability for ArcelorMittal Mines Canada. The company had been using a competitive lubricant and experiencing unacceptably high failure rates with elastomer o-rings in the final drive assemblies of haul trucks. An Imperial Oil team recommended Mobilube XFD 50, which features a unique blend of advanced base oils and had been extensively field tested on similar equipment.

The change has greatly reduced the o-ring problem and improved equipment availability for estimated annual savings of \$50,000.

Mobil Hydraul universal tractor fluids deliver proven high performance where one sump is used for transmission, differential, final drive, wet brake, wet clutch and hydraulic components. Hydraul Extra, our synthetic-blend multipurpose fluid, helps eliminate seasonal changes by performing across a very wide range of temperatures from -35° C to 100° C.





Mobil SHC 500 Series: Protecting high-pressure pumps across a wide range of temperatures.

Synthetic base oil and a high-performance additive system make the Mobil SHC 500 Series an excellent choice for the high-pressure, high-output pumps of hydraulic systems in severe service and enduring a wide range of temperatures.

These performance-proven fluids help enhance productivity through:

- Faster cold morning start-ups;
- A very high level of system cleanliness, minimizing sticking in close-tolerance valves;
- Extremely effective control of wear and corrosion for fewer issues with maintenance and repair;
- Longer oil life, which may enable extended oil drain intervals and increased availability of equipment.

Mobil DTE 10 Excel: Long oil life and an opportunity for savings in energy.

Mobil DTE 10 Excel series hydraulic fluids combine highly stable high shear stability performance with improved efficiency. Enhanced shear stability promotes clean systems, trouble-free operation of close-tolerance valves and long life for the fluid, even in severe service. In controlled laboratory tests we have shown that the hydraulic efficiency of these fluids may reduce energy consumption when compared to standard hydraulic oil. (Specific details are available on request.) The film strength and potent antiwear properties of Mobil DTE 10 Excel fluids help enhance productivity by reducing the risk of maintenance problems and downtime.

Mobil Nuto H-C: For vane, gear and piston pumps

When Mobil Nuto H-C was created it became Canada's first universal hydraulic fluid. It still ranks as a bestseller, thanks to powerful antiwear properties, outstanding water separation and an ability to help productivity through simpler lubricant inventories.



“ Need a premium all-season, all-purpose, antiwear fluid? I recommend Mobil Unavis N-C.”

Gord Susinski – Field Engineering Specialist

The name 'Unavis' is created from the words 'uniform viscosity,' which Mobil Unavis N fluids deliver by retaining their viscosity in rugged off-highway applications. Shear-stable polymer VI improves enable low pour points and a high viscosity index. With a choice of six viscosities you can choose

the grade that meets your needs precisely. High-performance antiwear additives protect system components to maximize uptime and keep your business productive.

Advanced technology Mobil coolant/antifreeze: Now you can make precisely the right choice to optimize protection and productivity.

Coolant/antifreeze is critical to the long-term productivity of your business. The right choice will guard against corrosion and help maintain engine heat balance, extending the productive

life of your lubricant. Our range of high-quality products enables you to accurately choose for your equipment and conditions.

Mobil Delvac Extended Life Coolant / Antifreeze: Protects off-highway cooling systems for 12,000 hours without supplemental cooling additives.

The patented Organic Acid Technology of Mobil Delvac Extended Life Coolant/Antifreeze protects cooling systems for 12,000 hours – a remarkable six years of service – without requiring supplemental coolant additives (SCAs).

The formulation is free of phosphate, nitrite, silicate and borate, tolerates all types of water quality and guards against the formation of hard-water scale and corrosion. Mobil Delvac Extended Life Coolant/Antifreeze provides long-term elastomer compatibility.

Mobil Delvac Extended Life 50/50 Prediluted Coolant/Antifreeze is a 50/50 mix of Mobil Delvac Extended Life Coolant/Antifreeze and deionized water. Mobil Delvac Extended Life 55/45 Prediluted Coolant/Antifreeze is a 55/45 mix.

Mobil Heavy Duty Coolant / Antifreeze: Exceptional protection year-round, plus simple and speedy top-offs.

Mobil Heavy Duty Coolant/Antifreeze is precharged with a Supplemental Coolant Additive (SCA). No SCAs are required at initial fill and a correct balance of chemistry is maintained at every top-off.

Mobil Heavy Duty Coolant/Antifreeze guards against freezing, overheating, cavitation and corrosion. The phosphate-free formulation inhibits hard-water scale; a patented inhibitor system further controls scale, drop-out and gel. Mobil Heavy Duty is a universal formula antifreeze.

Three pre-mixed products are also available, offering a choice of 50/50, 60/40 and 55/45 mix of Mobil Heavy Duty and deionized water.





Mobil Epic EP Moly and Mobil Epic MQ: Synthetic base oils with advanced lithium-complex technology protect enclosed bearings at temperature extremes.

For reliable year-round dispensing through central lubricating systems choose Mobil Epic EP Moly or Mobil Epic MQ. Both products are fortified with molybdenum disulfide (Moly) which delivers a potent film of protection to withstand shock loads and the

rigours of slow reciprocating motion under load. Mobil Epic EP Moly (three percent Moly) dispenses at -45° C; Mobil Epic MQ (five percent Moly) flows well at -50° C.

At Imperial Oil, we know there are many customer advantages when a dependable multipurpose grease works in several applications. But many other resource industry applications require specific grease qualities to protect equipment and maximize productivity. Rest assured, we have exactly the grease you need and the expertise to help you make a choice!

What is Moly, and how can it make a difference to the life of your equipment?

Moly is short for molybdenum disulphide, a highly effective antiwear agent in several high performance greases sold by Imperial Oil. Moly forms a thin layer of protective microscopic platelets that slide over each other as the grease is worked (somewhat like playing cards when shuffled). This thin layer of Moly sets up and adheres tenaciously to the mating metal surfaces, helping to reduce metal to metal contact and wear, while at the same time helping the lubricant to stay in place longer so that it can continue to deliver outstanding lubrication.

Mobil Centaur Moly 1: outstanding extreme pressure protection, water resistance and thermal stability.

Mobil Centaur Moly 1 is formulated with calcium sulphonate complex thickeners. They not only help hold the grease in place, they also strengthen its ability to protect your equipment through enhanced resistance to corrosion and water, thermal stability and excellent extreme pressure performance. Mobil Centaur Moly 1 contains three percent molybdenum disulphide (Moly) to guard against wear in chassis, king pins, tie rods, u-joints, and hinge and bucket pins.



The Mobilgrease XHP Series: Five percent Moly-enriched for excellent EP and antiwear performance.

Mobilgrease XHP 100 Mine and Mobilgrease XHP 321 Mine were developed especially for extra heavy-duty mining and construction applications. These high-performance lithium-complex greases are enriched with five percent molybdenum disulfide (Moly) for exceptional extreme pressure (EP) and antiwear protection.

Mobilgrease XHP 321 Mine is an NLGI 1 grease recommended for bucket pins, pivot pins and heavily loaded chassis. Mobilgrease XHP 100 Mine features a lower-viscosity base oil and lower thickener content for excellent low-temperature pumpability and start-up performance and is recommended for central lubrication systems.

Mobil Unirex EP 2: Versatile performance with excellent protection for chassis and wheel bearings.

Mobil Unirex EP 2 has long ranked as Imperial Oil's best-selling grease. Polymer-enriched Mobil Unirex EP 2 provides excellent adhesion and resistance to water washout. Overall performance of this very cost-effective product compares favourably to higher-priced 'specialty' greases, often enabling customers to cut costs and simplify inventory.

Mobil Unirex EP 1 Moly: Premium quality multipurpose grease for a wide range of severe applications.

Ideally suited to protect a variety of heavy equipment commonly used in farming, mining, forestry and construction. Mobil Unirex EP 1 Moly is a high-performance grease formulated with advanced lithium complex thickener and enriched with polymers to greatly enhance adhesion and water resistance. Molybdenum disulfide (Moly) fortifies against wear in components under extreme pressure, such as hinge pins and other applications.

“Now that you’ve seen what our lubricants will do for your equipment, see what our people will do for your business.”

Gaetan Lacasse – Field Engineering Specialist

The Mobil lubricants you've seen on these pages were created to enable off-highway operations like yours to make the most of their equipment – to make gains in productivity.

Now we'd like to show what the Imperial Oil team can do for your business. See how the depth of our experience is a perfect match for the depth of our product line. There's no time like the present to have both the power of Mobil product technology and the people of Imperial Oil working on your side!

