



AN HF SINCLAIR BRAND

# PLASTIC INJECTION MOLDING LUBRICANTS

WHEN PRODUCTIVITY IS YOUR GOAL,  
PETRO-CANADA LUBRICANTS PRODUCTS ARE THE ANSWER.

# A LINE OF QUALITY PRODUCTS THAT PRODUCES RESULTS

See how our superior Petro-Canada Lubricants products work together to help increase productivity and minimize costs.



**GEAR BOX**  
ENDURATEX™ EP 220  
Gear Oil



**ELECTRIC MOLD STROKE BALL SCREWS, ANGULAR CONTACT BEARINGS & BUSHINGS, MOVING PLATEN LINEAR BEARINGS**  
PRECISION™ XL EP 1/EP 2 Greases



**GREASELESS MOLD BUSHINGS WITH BOOSTER PAD ASSEMBLIES**  
HYDREX™ AW 68  
Hydraulic Fluid



**HYDRAULIC FLUID\***  
HYDREX™ AW 46  
Hydraulic Fluid  
\*Applies broadly throughout the machine.



**ELECTRIC CLAMP LOCK**  
ENDURATEX™ Synthetic  
EP 220 Gear Oil



**BEARING LUBRICATION**  
PRECISION™ XL EP 1/EP 2  
Greases

# INJECT PRODUCTIVITY INTO YOUR PLASTIC MOLDING OPERATION

With over 110 billion pounds of plastic manufactured each year, it's no surprise that plastic injection molding equipment is put to the test every day. Whether your company is producing small toys, car parts or anything in between, choosing the right lubricant can make the difference between increasing productivity and days filled with downtime.

## Meeting your challenges

We understand the difficulties you face in having to boost productivity while minimizing costs. Additionally, we know you need to maximize repeatability and run equipment for extended periods of time. Fortunately, our high-quality products can address all of these needs.

We also recognize that the desire for clean lubricants and compatibility with other fluids are critically important. Petro-Canada Lubricants products are recognized as suitable for use by many major plastic injection molding manufacturers. Plus, our lubricants start with ultra-pure, high-quality base oils and have good ISO cleanliness.

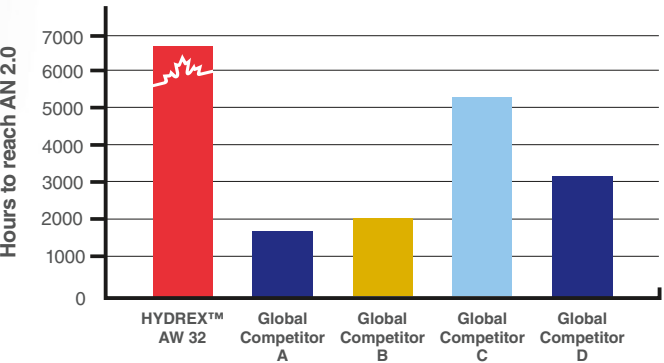
## Products that perform

Our complete lineup was created to cut downtime and increase efficiency. Products like HYDREX™ AW hydraulic fluid are exceeding expectations for many of the world's leading plastic injection molding companies.

## Service that satisfies

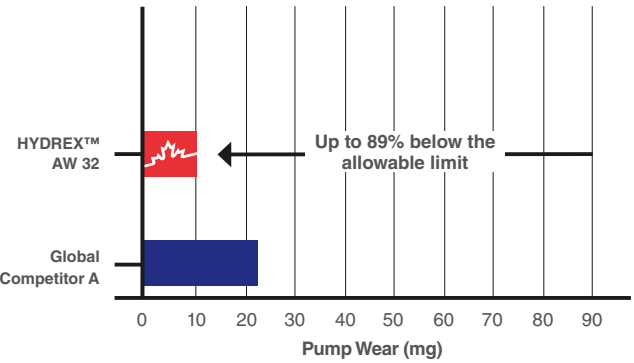
Our Technical Services team can provide timely, on-site solutions that can help extend equipment uptime, reduce maintenance costs and give you the best return on your investment. Our leading Research & Development team has decades of formulating experience, enabling them to develop the best products for your operation's needs.

Oxidation Life Comparison  
ASTM D943 Test (ISO 32)



HYDREX™ AW lasts up to 3x longer than global competitors.

Eaton 35VQ25 Hydraulic Pump Test



90 mg represents the maximum wear allowed as per Eaton E-FDGN-TB002-E.

Note: These are general guidelines identifying select Petro-Canada Lubricants products that may be most suitable for your equipment. Our PRECISION™ or PURITY™ FG greases may also be beneficial to your application. The product list reflects general recommendations only and does not constitute a final recommendation. Please consult your original equipment manufacturer's lubricant requirements for final recommendations. Please contact a Petro-Canada Lubricants representative or visit our website, [lubricants.petro-canada.com](http://lubricants.petro-canada.com), for more information and our complete product listing.



# A CLOSER LOOK AT SOLUTIONS THAT CUT DOWNTIME AND REDUCE MAINTENANCE COSTS

Our line of Petro-Canada Lubricants products for plastic injection molding machines was created with your operational challenges in mind, including hydraulic pump life, servo valve life and varnish.

**HYDREX™ AW 46** is designed to provide optimum performance in injection molding equipment manufactured by Husky, Krauss-Maffei, Battenfeld, Demag, Soplar and Netstal.



PRODUCT	PRODUCT DETAILS	SUITABLE FOR USE IN*	CHALLENGES ADDRESSED
HYDREX™ AW Hydraulic Fluid	<p>This advanced formula, long-life, anti-wear fluid provides excellent operating and maintenance benefits for increased productivity.</p> <ul style="list-style-type: none"><li>• Outstanding oxidation and thermal stability</li><li>• Improved rust and corrosion prevention</li><li>• Industry-leading sludge protection</li><li>• Recommended for hydraulic systems that operate in industrial plants</li></ul>	Equipment manufactured by Denison, Eaton, Bosch Rexroth, Arburg, Engel, Husky, Krauss-Maffei, Demag, Netstal, Soplar, Battenfeld, Komatsu, Sauer-Danfoss, Racine, Oilgear, Hydreco, Dynex and others	Hydraulic pump life, servo valve life, varnish
HYDREX™ MV Hydraulic Fluid	<p>Meet your energy efficiency goals and increase productivity with a lubricant that lasts up to three times longer than global competitors.</p> <ul style="list-style-type: none"><li>• Better protection from wear in low and high temperatures</li><li>• Prevents varnish buildup that can interfere with servo valve operation</li><li>• Protects equipment being driven longer, harder and faster in tougher conditions</li><li>• Recommended for hydraulic systems operating at high pressures and in wide temperature ranges</li></ul>	Equipment manufactured by Denison, Eaton, Bosch Rexroth, Arburg, Engel, Krauss-Maffei, Komatsu, Sauer-Danfoss, Racine, Oilgear, Hydreco, Dynex and others	Servo valve life, operation in higher temperatures, energy costs, warmup time in colder temperatures
ENVIRON™ AW Hydraulic Fluid	<p>Protect the environment by using a fluid that contains no metal-based additives — this minimizes the occurrence of waste water contamination by metals. For use within environmentally sensitive areas as well as for use in industrial manufacturing plants.</p> <ul style="list-style-type: none"><li>• Zinc-free solution so that oil won't oxidize, varnish and degrade as quickly</li><li>• Non-toxic for a safer working environment</li><li>• Provides anti-wear, rust and corrosion protection</li></ul>	Equipment manufactured by Denison, Eaton, Bosch Rexroth, Arburg, Engel, Krauss-Maffei, Komatsu, Sauer-Danfoss, Racine, Oilgear, Hydreco, Dynex and others	Hydraulic pump life, servo valve life, varnish
ENVIRON™ MV Hydraulic Fluid	<p>Protect the environment by using a fluid that contains no metal-based additives — this minimizes the occurrence of waste water contamination by metals. For both indoor and outdoor seasonal use in piston, gear and vane hydraulic pumps found in industrial plant and mobile equipment used in environmentally sensitive areas.</p> <ul style="list-style-type: none"><li>• Zinc-free solution so that oil won't oxidize, varnish and degrade as quickly</li><li>• Non-toxic for a safer working environment</li><li>• Provides anti-wear, rust and corrosion protection</li></ul>	Equipment manufactured by Denison, Eaton, Bosch Rexroth, Arburg, Engel, Krauss-Maffei, Komatsu, Sauer-Danfoss, Racine, Oilgear, Hydreco, Dynex and others	Servo valve life, varnish, energy costs, operation in wide temperature ranges, warmup time in colder temperatures
ENDURATEX™ EP Gear Oil	<p>This oil is specially formulated to deliver sustained long-life, anti-wear and extreme-pressure protection to gear drives and bearings.</p> <ul style="list-style-type: none"><li>• Protects against rust and corrosion</li><li>• Minimizes sludge and varnish deposits for reduced wear and longer oil life</li><li>• Water separability to prevent emulsion formation</li></ul>	Most enclosed industrial gear sets that require a high-quality EP lubricant	Fluid life, equipment protection



\*For a full list of OEM approvals and/or credentials, please consult a Petro-Canada Lubricants Technical Services Advisor.

# OUR NO-NONSENSE LUBRICANTS **WARRANTY**

“We will repair equipment or replace equipment parts that are damaged due to defects of a Petro-Canada Lubricants product, as long as the lubricant is used in accordance with your equipment manufacturer’s and our recommendations.”

IT’S MORE THAN JUST A WARRANTY. **IT’S A COMMITMENT.**

To learn more about how Petro-Canada Lubricants products can help your business, visit **[lubricants.petro-canada.com](https://lubricants.petro-canada.com)** or contact us at **[lubecsr@hfsinclair.com](mailto:lubecsr@hfsinclair.com)**

Committed to the disciplined operation of our business.

