



## Master Molded Products

Master your operations with the reliable, long-lasting HYDREX™ AW 46

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“Using HYDREX™ AW 46, we extended the life of our servo valves and hydraulic pump by close to 60 percent. Our seals no longer get brittle or crack and the softer oil seals have reduced oil leaks by 50 percent.”

– **Manny Garcia**, Plant Maintenance Engineer,  
Master Molded Products, Elgin, IL, USA

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## Master Molded Products (MMP)

Manny Garcia, Plant Maintenance Engineer for MMP (a custom injection molding facility), is responsible for ensuring injection molding machines in his plant are able to run for extended periods of time, often through the evenings and on weekends. This places increased pressure on the plant's hydraulic fluids to provide reliable protection for extended periods of time.



### The Challenge

When Garcia joined MMP, he realized immediately that the company's current maintenance system and hydraulic fluids were not doing the job he needed them to do. MMP needed a change. Garcia felt their existing fluid, supplied by a leading global oil company, provided poor performance and required too much time for preventative maintenance. They were also experiencing frequent unscheduled downtime due to varnish build-up, oil leaks as a result of oil seals becoming brittle and cracking, and issues with servo valves and pump failures.

### The Solution

Initially, Garcia set out to trial two new hydraulic fluids: a leading competitor and HYDREX AW 46. He ran the two fluids in the same machines, under the same conditions. The trial revealed better seal compatibility and less oxidation with HYDREX AW 46, and as a result Garcia was convinced that it was the best option.

Unlike many competitive hydraulic fluids that are made using all or part Group I base oils, Petro-Canada uses only Group II & III base oils to ensure that their hydraulic fluids offer superior protection and oxidation stability. They have been tested to demonstrate excellent compatibility with a variety of seals, while potential impurities in some Group I products can cause seal degradation over time.

"Petro-Canada is a brand I trust and the product is superior," says Garcia. "And once I decided to switch to HYDREX AW 46, I knew I wanted to switch our entire inventory to Petro-Canada products wherever possible."

### The Result

Since making the switch in 2009, MMP has experienced at least a 50 percent improvement in servo valve and hydraulic pump life. Scheduled downtime for preventative maintenance has been cut down to a total of two days per year – a 60 percent reduction.

"We were very happy with the results," says Garcia. "With HYDREX AW 46, Master Molded has virtually eliminated unscheduled downtime. We no longer have the issue of varnish build-up and as a result, the valves aren't failing."

### About Master Molded Products

MMP is a family-owned, custom plastic injection molding company, founded in 1946 by Martin Weinhart. While it started as a tool and die-making company, custom plastic injection molding capabilities were added in 1952. Today, run by the next generation of family members, MMP continues to offer the finest in finished plastic parts, secondary operations, mold design and tooling, operating from their state-of-the-art 110,000-square-foot production facility in Elgin, Illinois.

## HYDREX

Today's hydraulic systems are running under extreme pressures and working harder than ever before. This increases the rate of oxidation and harmful sludge build-up in your system. To protect against accelerated oil degradation and oxidation, it is important to use a premium quality hydraulic fluid.

HYDREX AW is engineered to resist thermal and oxidative breakdown, and to help protect against sludge formation. By minimizing oxidation and sludge, HYDREX AW provides long oil life and fewer change outs, thus lowering maintenance costs. HYDREX AW's premium anti-wear package provides superior pump protection – up to twice that of leading competitors' products.



To learn more about how Petro-Canada Lubricants can help your business visit:

[lubricants.petro-canada.com](http://lubricants.petro-canada.com)

or contact us at [lubecsr@petrocanadalsp.com](mailto:lubecsr@petrocanadalsp.com)

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