

Bearings

Case Study:

Houghto-Draw® 7060 provides major cost savings at a prominent Bearings manufacturer.

The Unique Challenge

A major bearings manufacturer wanted to initiate a project to recycle their metal forming lubricant. The manufacturer utilizes **Houghto-Draw® 7060**, a biostable soluble oil operating at a 12%-20% concentration range to stamp FAB fingers and rocker arms.

Parts are successfully manufactured with **Houghto-Draw® 7060**, and the used fluid was sent to waste treatment.

Houghton's FLUIDCARE Chemical Management Program worked with the customer personnel and Valley Forge Lab in evaluating recycling **Houghto-Draw® 7060**. The overall goal was to minimize product sent to waste treatment and reduce consumption of **Houghto-Draw® 7060**.



The Houghton Approach

Our Fluidcare Team leveraged our Equipment relationship with Smartskim to install a unit to remove any tramp oil from **Houghto-Draw® 7060**. Magnetic filters and bag filters were also implemented to eliminate any iron fines and dirt associated with the stamping process. Samples of the recycled **Houghto-Draw® 7060** were analyzed on-site and in the Valley Forge Lab and were found to be in good condition and satisfactory for continued service.

Results and Benefits

The impact of the recycling project has been successful and provided the following cost saving benefits:

- **Reduced usage of Houghto-Draw® 7060 by 75% totaling approximately \$310K savings annually.**
- **Eliminated 179,000 gallons of product sent to waste treatment annually.**
- **The cost of labor to handle the existing waste treatment process was also eliminated.**
- **Consistent concentration monitoring of recycled Houghto-Draw® 7060 allows for improved tool life at a much lower cost.**



Houghto-Draw® 7060 is an excellent choice for stamping and forming capabilities with increased tool life and improved surface finish.



HOUGHTON®

Fluid Partnerships Making A World Of Difference

Case study after case study demonstrates why Houghton International is leading the global Metalworking Fluids market today. More than 20,000 customers worldwide across a diversified range of manufacturing processes have improved operations due to the mission-critical product portfolio of Houghton.

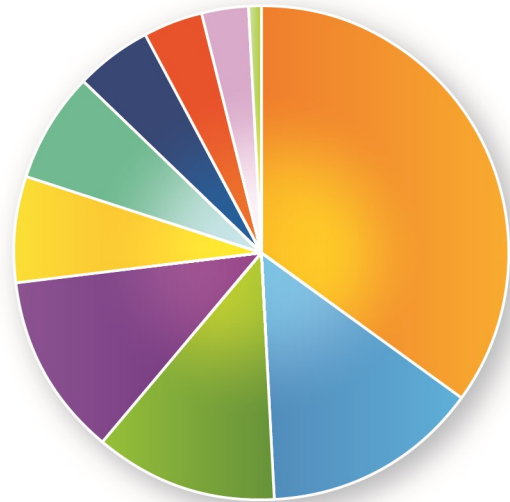
Building A Team For Customer Success

An approach that combines chemistry and technology with business expertise uniquely positions Houghton to support customer growth and changing market requirements. With around 2,000 employees in 80 countries, and 12 manufacturing facilities in 10 countries, we are well prepared to capture regional and local business opportunities and support growing expansion of global customers.

Through innovation, expertise and efficiency, our engineers and business specialists are able to build a team with the customer that ensures product optimization, employee health and safety, procurement and logistics management, and reduction of environmental impact. By providing both the solution to customers' fluid challenges and the foundation for continued improvement, Houghton offers a proven method of sustainable profitability.

For immediate consideration and evaluation of your fluids needs, and to request additional support material, please contact your Houghton International sales representative at www.houghtonintl.com

Houghton International Product Portfolio



- Metal Removal 35%
- Hydraulic Fluids 14%
- Steel Rolling 12%
- Metal Finishing 12%
- Non-Ferrous Rolling 7%
- Heat Treatment 7%
- Metal Forming 5%
- Metal Protection 4%
- Metal Cleaning 3%
- Other 1%

Established Client Relationships

Houghton International has long-standing partnerships with over

20,000 Leading Global Customers

servicing their metalworking fluids needs across a wide range of applications and diversified end-markets including **automotive, aerospace, fabricated metal goods, bearings, energy, non-ferrous and steel.**



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