



## Dura-Life™ Filter Bags

### Provide “High Mileage” on Silica Dust

**INDUSTRY:** Metal castings for the automotive industry.

**PROBLEM:** Short filter life – conventional polyester filter bags plugged up from the fine, slippery silica dust.

**SOLUTION:** Donaldson Torit Dura-Life filter bags capture the fine particulate without blinding over and yield 2½ times longer filter life.



*Dura-Life filter bags in this Donaldson Torit Modular Baghouse don't plug at this automotive parts maker.*



**F**ine silica dust, combined with abrasive dust from iron and magnesium castings, creates a nasty environment for the workers at this 24/7 manufacturing plant generating 85,000 tons of cylinder heads and metal components per year for the automotive industry. To filter the plant air, they used conventional polyester filter bags in their baghouse—but the filters blinded over and stopped working every 3 months. The dust collector, located outside the building under the hot Mexican sun, operates in 100°F temperatures and 40% humidity.

This manufacturer turned to Donaldson® Torit® and its award-winning Dura-Life™ filter bags. Designed with a proprietary technology that retains dust on the surface of the bag, allowing dust to be pulsed off during the collectors self-cleaning cycle, the filters achieve 99.9% efficiency while providing extra long filter life.

Now with Dura-Life in its Donaldson Torit brand Modular Baghouse collector, this producer reports over 5000 hours—7½ months!—of continuous filter operation before bag replacement!

More than twice the life? That's what we call getting great mileage! ☉

#### Project Statistics

<b>Dust</b>	Silica, iron, magnesium
<b>Application</b>	Automotive - Silica dry scrubber
<b>Dust Collector</b>	Donaldson Torit Modular Baghouse (Top Access) Model 162MBT10
<b>Air Volume</b>	14,000 acfm
<b>Loading</b>	5-8 grains/dscf*
<b>Media Area</b>	2,598 sq. ft.
<b>Air-to-Media Ratio</b>	5.4:1
<b>Gross Can Velocity</b>	140 fpm
<b>Hours of Operation</b>	24/7
<b>Environment Temp</b>	100°F
<b>Elevation</b>	1939 ft. above sea level
<b>Humidity</b>	40% RH
<b>Dura-Life Filter Bag Life</b>	5,040 hours

\* Grains/dscf = Grains per dry standard cubic foot. There are 7,000 grains in one pound.

Dura-Life bags are made with Durapex® media manufactured by Polymer Group, Inc.

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# Donaldson®

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