

## 200% Uptime Increase From Advanced Filtration Technology

**Update:** "Since installing OEI filtration 5 years ago we only service them every 6 months instead of replacing disposable filters every month. We also have doubled the life of our hydraulic fluid. This product has improved our bottom line by increasing production values and reducing costs."

"Since installing your magnetic rods and filter pads ... our uptime has increased in excess of 200 percent ... We recommend your filtration systems to enhance preventative maintenance programs of any industrial application, as they are user friendly, very efficient, easily cleaned and cost effective."

ROBERT TUTTY, OWNER, SPECIALTY LAMINATE MANUFACTURING LTD.



5000 Scrubber on hydraulic return lines (left) and Magnetic Y-Strainer (right) installed on the pneumatic airlines to protect the system.

### SPECIALTY LAMINATE MANUFACTURING LTD.

November 2005

"When you run 24/7, uptime is everything," points out Robert Tutty, owner of Specialty Laminate Manufacturing Ltd. (SLM), a leading manufacturer of Melamine board. SLM was a small company but continuous high quality production and competitive pricing ensured it did not stay small for long.

"Uptime has increased in excess of 200%" "We had to take clear and positive action. We were experiencing downtime due to pneumatic control valve and hydraulic fluid leakage from joint and weld failure every four to six weeks." Tutty explained. Because SLM's orders grew so fast their plant is now flat out every day, all day, with little time for any critical part of the plant to fail.

Tutty approached One Eye Industries (OEI) with the hope that he could at least keep his 4,500-pound Wemhoner presses running without interruption. A OEI Magnetic Base filter rod was immediately installed at the inlet and the outlet of the Wemhoner's 250-gallon hydraulic reservoir. Six months later, Tutty reported that, "shut down for valve replacement, joint and weld failure has been dramatically reduced. Our uptime has increased in excess of 200% thereby improving production."

### ADD-Vantage 9000 Adds to Filtration Capabilities

SLM was so pleased with the improved uptime of their plant that they have added



ADD-Vantage 9000 – hydraulic filter (25 micron absolute 200 Beta) stainless steel element and secondary magnetic filter rod - on a Wemhoner press. (Filter indicated by arrow)

the ADD-Vantage 9000 to the rest of their systems. The 9000, the world's most advanced filtration system featuring patented magnetic technology, is specially designed for hydraulics and lube oils. It also replaces disposable hydraulic filters with the 9000's reusable, stainless steel filters that can be cleaned in a parts washer or with an ultrasonic cleaner. The 9000 has totally eliminated SLM's stocking of disposable filters and takes the first step at reducing the 900 million filters thrown into landfills every year in North America.

"The way I figure it, these filters pay for themselves the second you install them," boasts Tutty. "The ADD-Vantage 9000 has improved the filtration capabilities to the point where the oil remains as clean as the day we employed it; one year later."

## Customer at a Glance

Company: Specialty Laminate Manufacturing

Industry: Melamine pressboard

Location: Calgary, Alberta

OEI 5000 Series Scrubbers have also been added to the plant maintenance program. They are installed on the hydraulic return lines and remove contamination and wear metals before they go through the ADD-Vantage 9000. "You can never have enough filtration," says Tutty when asked about all the filters in his plant. "I can no longer afford my entire plant shutting down because equipment has failed."

### How It Works

OEI's filtration exceeds manufacturer and ISO standards, and features patented magnetic technology, which creates the magnetic field strength necessary to effectively remove ferrous contamination at the sub-micron level. Hard ferrous particles (iron and steel) from sub-micron to 10 microns in size are responsible for most of the wear cycle damage in lubrication and hydraulic systems with specific damage to bearings, seals, and valves. Severe damage is caused by particles in this size range because they are absorbed into the oil film and travel to high-pressure areas causing plowing, gouging and spalling. Standard filtration is not able to effectively remove contamination of this type. OEI's technology creates magnetic fields strong enough to remove these particles. In many cases this is the first time credible filtration to this level has been possible.

### The Last Word

Tutty summarizes his experience by saying, "One Eye Industries' unique filtration systems are now improving our filtration on all our equipment at both of our facilities. We highly recommend your filtration systems to enhance preventative maintenance programs of any industrial application as they are user friendly, very efficient and cost effective."

## Technology Highlights

- ADD-Vantage 9000 hydraulic & lube oil filters with 25 micron absolute, reusable, stainless steel filters - on all equipment
- OEI 5000 Series Scrubbers - at the inlet and outlet of a 250 gallon hydraulic reservoir tank
- Magnetic Y-Strainers - on air lines

Challenge	Solution	Results
<p><b>PLANT UPTIME</b></p> <ul style="list-style-type: none"> <li>• Increase uptime of a 24/7 plant that experiences severe line delays every month from hydraulic and pneumatic failures.</li> </ul> <p><b>PLANT EQUIPMENT</b></p> <ul style="list-style-type: none"> <li>• Extend maintenance cycles.</li> <li>• Reduce the cost of operating machinery.</li> <li>• Reduce the environmental impacts of disposable filters.</li> <li>• Easily cleaned.</li> </ul> <p><b>AIR LINES</b></p> <ul style="list-style-type: none"> <li>• Prevent airlines from plugging and carrying contaminants to equipment.</li> </ul>	<ul style="list-style-type: none"> <li>• Adopting a OEI 2011 Magnetic Rod on the inlet and outlet of a 250-gallon hydraulic reservoir.</li> <li>• Installing OEI 5000 Scrubbers on all hydraulic return lines</li> <li>• Adoption of ADD-Vantage 9000 hydraulic and lube oil filter on all equipment.</li> <li>• Usage of ADD-Vantage 9000 reusable stainless steel filters — 25 micron absolute rating.</li> <li>• Cleaning: <ul style="list-style-type: none"> <li>• A rag — magnetic filter rod.</li> <li>• An ultrasonic washer or a parts washer — ADD-Vantage 9000.</li> </ul> </li> <li>• Installation of OEI Magnetic Y-Strainer inline.</li> </ul>	<ul style="list-style-type: none"> <li>• 200% increased uptime of the entire plant.</li> <li>• Increased life of critical components (valves, pumps, motors and seals).</li> <li>• Reduced maintenance costs (fewer replacement parts &amp; less personnel overtime).</li> <li>• Fewer hydraulic oil changes and longer service intervals as the "oil remains as clean as the day we employed it."</li> <li>• Reduced operational costs as the ADD-Vantage 9000 eliminated: <ul style="list-style-type: none"> <li>• Disposable filter purchase.</li> <li>• Disposable filter stocking.</li> <li>• Used filter disposal costs.</li> </ul> </li> <li>• No increase in maintenance time.</li> <li>• Reduced seal wear.</li> <li>• Reduced air tool maintenance.</li> <li>• Capturing large volumes of rust particulate and very fine eroded steel filings.</li> </ul>

For more information on how to get One Eye Industries working for you please contact your local reseller, visit [www.OneEyeIndustries.com](http://www.OneEyeIndustries.com), or call 1-877-888-TRAP

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