

NTZ Micro Filtration

NEWS RELEASE

HILLSDALE COUNTY SHERIFF'S OFFICE FINDS CREATIVE COST SAVINGS IDEA FOR GOING GREEN WITH FLEET

Wixom, Michigan, May 19, 2009 – A three month study has just been concluded with the cooperation of Hillsdale County Undersheriff J.J. Hodshire, to determine if vehicle fleet maintenance costs could be reduced. Not only was it proven that costs could be reduced, but there was an environmental benefit realized also.

During the study, a NTZ engine filter was installed on one of the county's Ford Crown Victoria vehicles to see if the current 3,000 mile oil change interval could be doubled. By doing so, the county would save much needed budget dollars on oil purchases, maintenance hours and oil disposal costs. 50% less oil would be consumed and, therefore, the volume of environmental waste would be reduced.

At the same time, a vehicle *without* NTZ filtration was tracked and oil samples were collected and sent off to a third party lab for testing. After 3,834 miles the vehicle *without* filtration had already reached a documented oil condition of being excessively contaminated (ISO 26/23/14). However, after a 6,500 mile period, the vehicle equipped with the NTZ filter had engine oil that was cleaner than new condition (ISO 17/15/13). The independent lab oil reports provided the county with full confidence that oil changes can be extended without any concerns.

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Most importantly, according to the Society of Automotive Engineers (SAE paper #881825), “the level of filtration in an engine can have a significant impact on wear rates due to abrasive particles. Wear can be reduced by as much as 70% by going from a 40 micron filter to a 15 micron filter.” The NTZ filter utilized in this case study was a 2 micron filter. This translates into longer vehicle life.

As cities, counties and states are continually faced with budget reductions, the NTZ product can help meet the challenges of maintaining fleets in a safe, reliable condition. Additionally, since it is a universal filter, it can be removed when fleets reached their useful life and added to the updated fleet, eliminating any future investment costs.

The NTZ bypass filter is a patented product that is easily installed on any engine type and requires only a simple element change at predetermined intervals to maintain a superior cleanliness level.

NTZ Micro Filtration is a recognized leader in the development and manufacturing of micro filtration technology for automotive, wind energy, industrial, and aftermarket applications. Located in Wixom, Michigan the company is ISO/TS 16949, ISO 9001, and ISO 14001 certified. For more information about the NTZ engine filter or this study, contact us directly at 248.449-8700.

“It was concluded that the NTZ high efficient filter system was able to extend the oil service life by a minimum of 100% resulting in a 50% saving on costs and a 50% reduction in environmental waste product.”





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HILLSDALE

Cleaning up the streets

Sheriff hopes new filters will save money, environment

By **STEVEN HOWARD**
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A supplemental engine oil filtration device will save the Hillsdale County Sheriff's Department thousands of dollars a year, according to tests overseen mutually by the department and the product's manufacturer. Undersheriff Jeremiah Hodshire said he was skepti-

cal of the claims at first, given it is traditional to change oil regularly and often.

"I've been looking at this well over a year," he said. "I wanted to make sure the product is a good product."

Hodshire commissioned a study in which the filter was installed in a heavily-used patrol car. The car was given an oil change, along with an-

other patrol car not containing the filter to act as a test control. Both cars were driven as they normally would have been for 6,500 miles, having their oil tested at regular intervals during the period.

The tests were conclusive. "Utilizing this device, we've ended up with a better refined oil," he said. "It offers significant savings over the

life of the vehicle."

The creator of the device, NTZ Manufacturing, USA LLC, is based in Wixom, Mich. and has contracts with Ford and Volkswagen, among other companies, for similar devices.

Though the units cost approximately \$190 each, Hodshire said they will quickly

By the numbers

Hillsdale County Sheriff's patrol cars 18

patrol cars.

14 number of oil changes per car.

\$300 expected savings per car with NTZ filter.

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pay for themselves.

"We put 40,000 miles per year on a patrol car. That amounts to roughly 14 oil changes," he said.

Hodshire said his department plans to eventually test the devices up to 10,000 miles before an oil change. If the results are positive, which preliminary figures indicate they will be, the number of required yearly changes would be reduced to four per car. At \$30 for an oil change, the savings quickly add up. The department would then be saving \$300 per car per year for each of the 18 patrol cars.

Even though the monetary savings were immediately enticing, Hodshire said he wanted to make certain they would not compromise the safety or performance of his fleet.

"You never want to compromise officer safety or public safety," he said. "I wanted to make sure the tests would yield the results they were promising, and they did."

The filter is interchangeable as well, and can be put into a new patrol car when an old one is decommissioned.

With budget cuts being called for across the board, Hodshire said the cost savings are nice but are not the only benefit.

"Then you look at the environmental waste," he said. "We're not discarding this oil."

Cathy Williams, NTZ director of marketing, said the efficiency of traditional filters is limited.

"Your engine filter is only

capable of removing a certain size of particles," she said. "Mostly, the larger ones."

Williams said her company's product removes much smaller particles, and she hopes to educate people on how important this emerging technology is.

"It's just getting adopted. People are getting used to cleaning oil," she said. "Oil doesn't become old, it becomes dirty."

Williams cited how rigorous, independent test results reinforced the company's claims.

"We tested the oil eight times during the test," she said. "After 5,500 miles, the oil was actually cleaner than when we started."

The control car did not do as well.

"At 3,800 (miles), that one was already way out of spec," she said.

Because safety and performance were not compromised, and the product worked as pitched, Hodshire said he will start installing the filters in his fleet as soon as possible.

"We have just authorized the purchase of five more units," he said.

Ninety percent of patrol cars will have the device by December; the remainder by February, according to Hodshire.



The NTZ Micro Filtration device installed on a Hillsdale County Sheriff's Department patrol car. The supplemental filter has more than doubled oil life in the test vehicle.

DAILY NEWS/ STEVEN HOWARD



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