

### Problem

Due to actuation of cylinders, refuse trucks constantly have contaminants in the hydraulic oil. This contamination quickly causes damage to system components, requiring replacement. The only way to prevent this damage is to frequently replace the hydraulic fluid with new oil. -That is a significant cost.

### Background

A refuse hauler supplier came to Schroeder looking for a way to save money and improve the component life of their fleet's hydraulic components. To accomplish this, they wanted to institute a new monitoring and oil maintenance program: A simple system which could be easily tracked.

Working closely with the supplier as well as the refuse haulers, Schroeder created a way to monitor, filter (and most importantly) record this critical information. The Asset Management Filtration Station<sup>®</sup> provided all of this in one, mobile filter cart. The built-in computer and custom software provides complete visibility to service managers on the status and routine maintenance of the vehicle.



### Solution

Schroeder designed the Asset Management Filtration Station<sup>®</sup> by using custom software and an industrial touch screen computer mounted directly on the standard Filtration Station<sup>®</sup>. The AMFS is simply connected to the reservoir. The operator inputs his name, asset number and hours of operation and presses "Start." - The AMFS does the rest. It filters the oil until it reaches the desired cleanliness code and creates a report in an easy to read, Excel spreadsheet. This report is stored by asset number and makes trending easy. Each run is time stamped so supervisors know exactly when each asset is serviced and how long it took.

Once instituted on the first 100 vehicles, the company quickly saw a return. The fluid conditions were all trending down to the targeted cleanliness of 18/15/13. With clean and dry oil, the tanks no longer required frequent flushing. In the first 6 months, they realized a savings of 3500 gallons of new hydraulic oil (at \$6.19 a gallon). In simple terms, they did not have to buy \$21,656 worth of new oil nor pay for the disposal of the old used oil. More importantly, they can now extend their oil drain schedules out from 6 months to 1 ½ years, saving labor time as well.

### Results

The AMFS provided the needed data and visibility to the service manager. Now, he not only knows the condition of the hydraulic oil but also the date, operator information recorded as well how frequently the truck is being serviced. By maintaining good quality fluid in the system they can extend fluid life and help reduce maintenance costs.

**Schroeder**  
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