Case Study

A study was conducted by the Optimum Fleet Health team to determine a client's fuel savings due to the use of Optimum Fleet Health's proprietary early maintenance detection and reporting service, known as VRx™.

Three percent (3%) of the client's fleet was studied for fuel consumption inefficiency based on early detection and reporting of maintenance issues. On average, VRx™ detected and reported maintenance issues three to four weeks prior to an active code (dash light) being reported. The study, which was conducted from May 2014 – November 2014, found that each week a maintenance issue goes uncorrected there is an average 27% reduction in fuel efficiency. Early detection allowed our client to target repairs and achieve significant fuel savings, compared to waiting for the vehicles to provide an alert, or for a driver complaint of a maintenance issue. Over the six-month range that this study was conducted, the fleet averaged $549 per vehicle in fuel cost every week. The 27% average reduction in fuel efficiency (depicted below) due to the detected and reported maintenance issue, cost the client $93 per vehicle on a weekly basis.

Ultimately, the VRx™ early detection and reporting initiated earlier repairs and provided fuel savings of $279 - $373 per vehicle during the study by addressing the maintenance issues three to four weeks earlier than they might have otherwise.

Client

▶ Global passenger transportation company

▶ Fleet consists of late model transit buses used for inner city routes.

Optimum Fleet Health

▶ Created a proprietary software system using predictive formulas operated on its secure dynamic formula engine that processes thousands of vehicle data records per minute.

▶ Vehicle data records are processed and distilled into usable information and presented in the form of a weekly VRx™ Report.

▶ The VRx™ Report is an instructional report that maintenance personnel of transportation companies use to detect and fix smaller problems before they become bigger ones.

Average 27% MPG Decrease

5.8 mpg

ISSUE: Reported on VRx Report

4.2 mpg

ISSUE: Indicated by dash light

Week 1 — Week 2 — Week 3 — Week 4