



# Reviva and OE Equivalence



Reviva is a privately owned gas and diesel engine remanufacturer located in a 70,000 sq. ft. state-of-the-art facility in Minneapolis, Minnesota. Since 1945, Reviva has been remanufacturing engines and engine components for Original Equipment Manufacturers (OEMs), direct national fleet accounts, and state and local governments using the latest in remanufacturing processes and technologies. OEMs, including Ford, Freightliner, and Detroit Diesel, Perkins and Chrysler have relied on Reviva to remanufacture quality engines and components to distribute through their dealerships. OEMs also use Reviva engines and components as warranty replacement units. National fleet accounts, including UPS, Interstate Brands, Aramark, Unifirst, Sara Lee, and state and local governments also depend on Reviva to provide quality products that reduce operating costs and extend the life of their vehicles. Reviva has experienced rapid growth in this market segment because it offers the highest quality product at a fair price. Reviva stands behind being equal to or better than equivalent OEM products.

## Employees

Our employees are our greatest asset. Reviva's employees have, on average, nine years engine remanufacturing experience and are among the highest skilled in the nation. Our employees are continuously trained and participate frequently in Kaizen (continuous improvement) events. They are also very skilled in the latest gas and diesel engine technology. Our employees participate in ASE certification tests which are offered twice a year.

## Quality Control

Reviva ensures a quality product by following documented standard procedures including work sequence charts with specifications, standard work instructions and engineering change orders. Processes are continuously improved using 6-sigma and Kaizen methodologies to eliminate variation and prevent defects thereby ensuring the highest quality product available.

## Components

Reviva sources components from companies that supply OEMs. If a supplier of a component can not be found that meets or exceeds the OEM specification, Reviva will source that component directly from the OEM.

## Manufacturing Processes

Reviva is at the forefront in adapting the latest remanufacturing processes and techniques. Our manufacturing methods are based on lean manufacturing principals used in the Toyota production system. These principles focus on eliminating waste in the process to improve quality, reduce cost, reduce lead time and improve workplace safety. This philosophy combined with Reviva's use of many NC controlled machines including block line bore and cylinder boring, torque plate honing, block and head resurfacing, micro-polishing and balancing, the latest fuel system test benches, and computer controlled dyno testing, ensure that Reviva produces the highest possible quality product.

## Configuration

Reviva builds most of its product into a Complete Drop-in configuration. The Drop-in includes intake and exhaust manifolds, high and low pressure fuel lines and other fuel system components, tin ware, many electronic sensors, and cooling system components. Every Complete Drop-in engine is dyno tested to ensure the engine meets OE specifications and that all systems are performing as required. Drop-in engines are 100% black-light checked for oil, water and fuel leaks. Engines are then drained of break-in oil and shipped, ready to be installed by the customer.



## Warranty Coverage

**On-Road Complete Drop-In configurations: 2yr/unlimited mileage.**

**2nd year long block coverage only.**

**Off-Road Complete Drop-In configurations: 1yr/2,000 hours.**

Some restrictions apply, see limited warranty details or call for more information.