

The Evolving Diesel Engine

Diesel engines have come a long way since the mid-90s. The key to diesel's evolution has been the advancement of new clean diesel technologies. Today's advanced renewable diesel fuels have built on the diesel engine's and emission control system's near-zero emissions across all applications. Plus, these fuels enhance diesel performance, maintain efficiency over other energy sources, and ensure long-term suitability for sustainability goals.



Vehicle MPG the current Government CAFE standard is requiring by 2025



Gallons of diesel saved by heavy-duty diesel trucks from 2007 to 2015



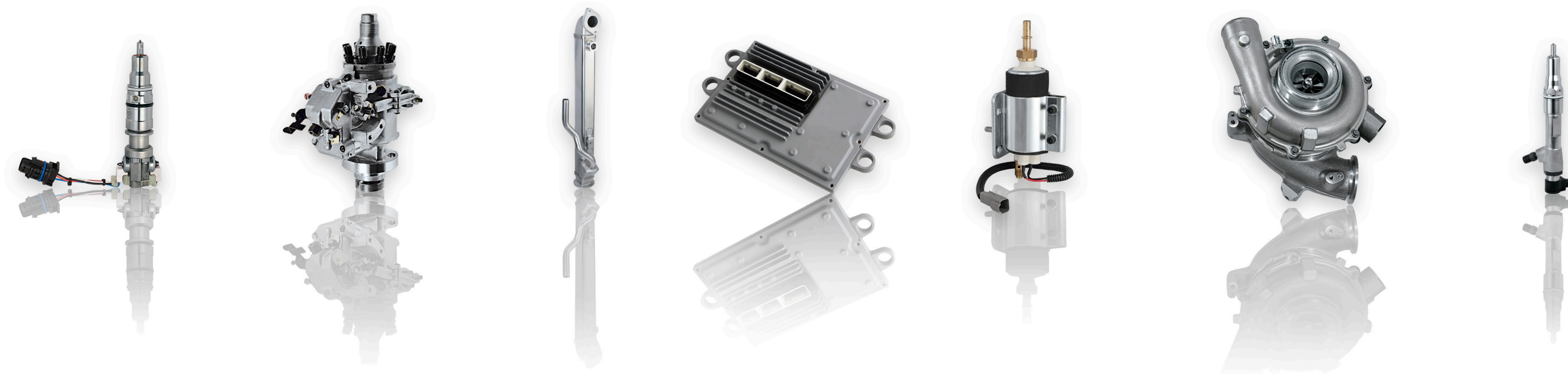
Expected diesel share of U.S. Passenger Car/Light Truck market by 2020



Percentage of new light vehicles that will use diesel engines

The Most Comprehensive Diesel Program in the Marketplace

To account for the burgeoning diesel market, GP Sorensen® has fully invested in diesel. Today, GP Sorensen® Diesel offers thousands of diesel parts in hundreds of unique diesel categories, and we're a basic manufacturer in most of them. GP Sorensen® Diesel is committed to supplying professional technicians with comprehensive coverage for genuine diesel parts, which is evident from our extensive offering of new and quality-remanufactured products.



With an array of diesel parts across more than 40 categories, GP Sorensen® supplies professional technicians with the coverage they demand.

Here's a sample of our offering:

- | | | |
|--|----------------------------------|---|
| • Air Cleaner Check Valve | • Fuel Injector Installation Kit | • High Pressure Oil Pump Hose |
| • Auxiliary Air Valve | • Fuel Injector Line | • High Pressure Oil Pump Seal Kit |
| • Emission Fluid Injection Nozzle | • Fuel Injector Rail | • High Pressure Oil Rail Ball Installation Tool |
| • Fuel / Water Separator Sensor | • Fuel Injector Seal Kit | • High Pressure Oil Rail Seal Kit |
| • Fuel Filter Housing | • Fuel Injector Sleeve | • Manifold Air Tube |
| • Fuel Heater | • Fuel Line O-Ring Kit | • Multi-Port Fuel Injection Tune-Up Kit |
| • Fuel Injection Control Module | • Fuel Pressure Regulator | • TBI Gasket Pack |
| • Fuel Injection Control Pressure Sensor | • Fuel Pressure Relief Valve | • Turbocharger - New |
| • Fuel Injection Harness | • Fuel Pressure Sensor | • Turbocharger - Remfd |
| • Fuel Injection Pump - New | • Fuel Rail O-Ring Kit | • Turbocharger Hose |
| • Fuel Injection Pump - Remanufactured | • Fuel Rail Supply Line | • Turbocharger Oil Line |
| • Fuel Injection Pump Installation Kit | • Fuel Shut-Off Solenoid | • Turbocharger Wastegate Solenoid |
| • Fuel Injector - New | • Fuel Temperature Sensor | • Vacuum Pump |
| • Fuel Injector - Remanufactured | • Fuel Transfer Pump | • Valve Cover Gasket |
| • Fuel Injector Driver Module | • High Pressure Oil Pump | |

And many more diesel parts and categories on the way!



Introducing GP Sorensen® Diesel 100% NEW Fuel Injectors

GP Sorensen® Diesel is proud to offer a line of 100% NEW Diesel Fuel Injectors, which includes NEW OE-production fuel injectors for 4.5L, 6.0L, 6.4L, and 7.3L Ford® Power Stroke® diesel engines as well as Navistar DT465, DT530, DT570, and HT570 and Maxxforce 5, 7, 9, 10, and DT.

What makes GP Sorensen® Diesel NEW Fuel Injectors the best

Extensive engineering and manufacturing expertise coupled with high-precision equipment means GP Sorensen® Diesel NEW Fuel Injectors include the latest engineering enhancements to match the OE injector. GP Sorensen® Diesel NEW Fuel Injectors are built for the highest levels of precision and consistency, which delivers uncompromising quality, performance, and fuel economy.

OE standards, precision engineering and fully integrated capabilities set GP Sorensen® Diesel apart

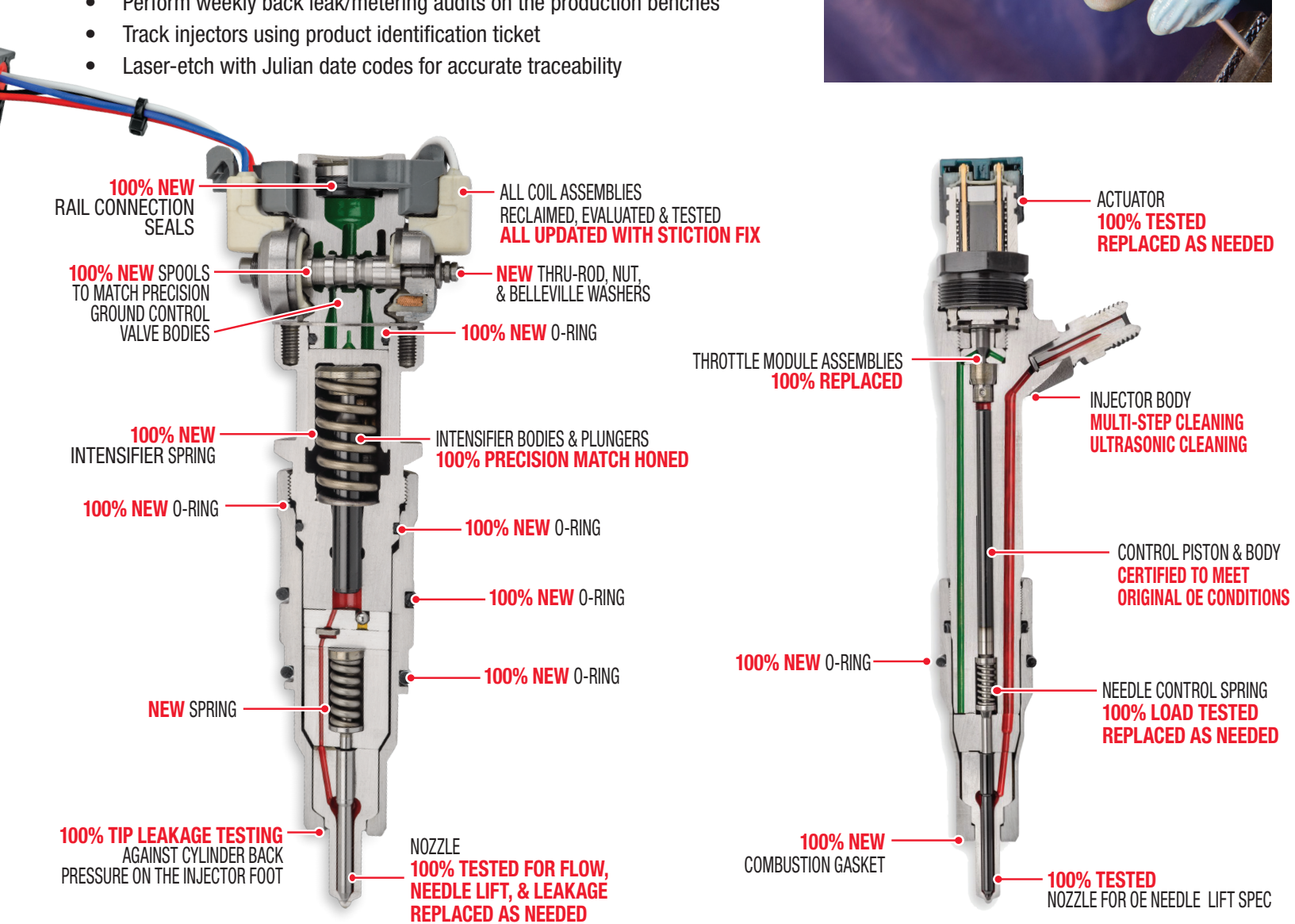
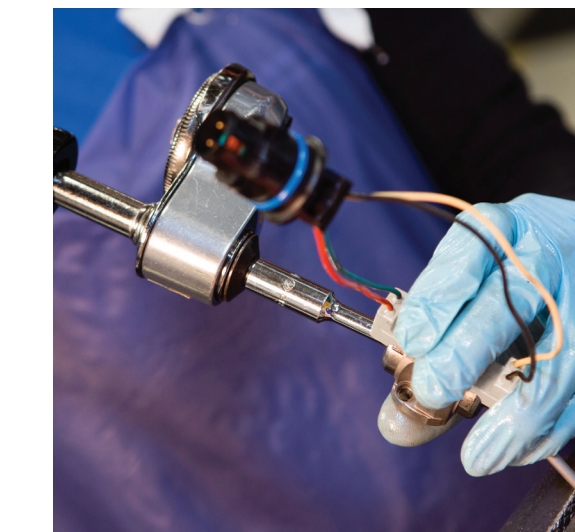
- 100% all-new OE-replacement unit includes the latest engineering enhancements to match the OE injector
- Undergoes extensive dynamometer, hot gas test stand, and diesel emissions testing to ensure proper performance
- Product of OE-production design, development, engineering, and manufacturing processes, including sub-micron machining and complex assembly systems



To ensure that our remanufactured diesel injectors perform flawlessly, we first make sure that they remain contamination-free during the rebuild process. We replace every necessary component with new and administer a precise, repeatable process that is followed every time. Here's a checklist we adhere to every time we remanufacture a GP Sorensen® diesel injector:

Quality Checklist

- Assemble in a temperature-controlled clean room (Class-100,000)
- Store all components overnight in stainless steel bins before assembly
- Use clean-room-certified towels, smocks, gloves, and sticky mats
- Replace all tested nozzles on CRI and HEUI injectors, as needed
- Replace all shims, intensifier springs, and external O-rings
- Test all solenoids and apply upgrades, wherever necessary
- Run OE Master injectors and plot/review the data points for comparison
- Scheduled maintenance of test stand, including fluid replacement, to reduce contamination
- Never test contaminated warranty injectors on production benches
- Perform weekly back leak/metering audits on the production benches
- Track injectors using product identification ticket
- Laser-etch with Julian date codes for accurate traceability



▶ Superior Medium-Duty Diesel Coverage

Genuine Diesel Parts for Vehicle Classes 4, 5, and 6



CLASS 4 14,001 to 16,000 lbs



CLASS 5 16,001 to 19,500 lbs



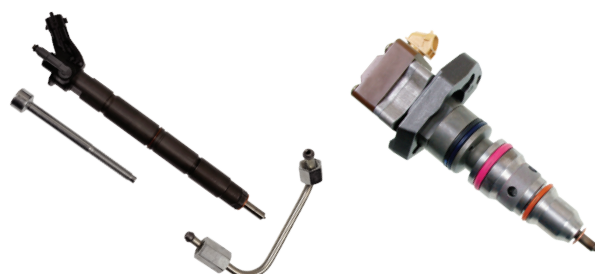
CLASS 6 19,501 to 26,000 lbs

Medium-duty vehicles belong to vehicle classes 4, 5, and 6. These three classes consist of any vehicle with a Gross Vehicle Weight Rating (GVWR) between 14,001 and 26,000 pounds, which is the total combined weight of the truck, including all passengers, fuel, fluids, and payload. These vehicles include everything from parcel delivery trucks to bucket trucks and school buses. GP Sorensen® is proud to provide an extensive offering of premium replacement parts for these medium-duty applications.

More Than 150 Diesel Engine Management SKUs for Medium-Duty Trucks

MD Diesel Fuel Injectors

70+ SKUs AVAILABLE



New

Remanufactured

MD Diesel Turbochargers

15+ SKUs AVAILABLE

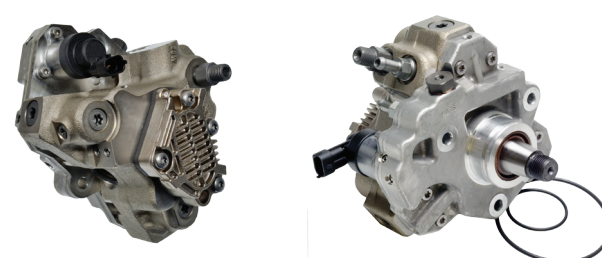


New

Remanufactured

MD Diesel Fuel Injection Pumps

20+ SKUs AVAILABLE

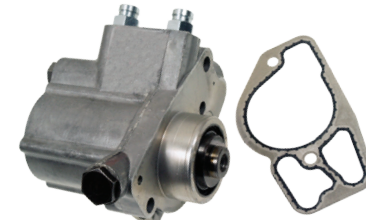


New

Remanufactured

MD Diesel High Pressure Oil Pumps

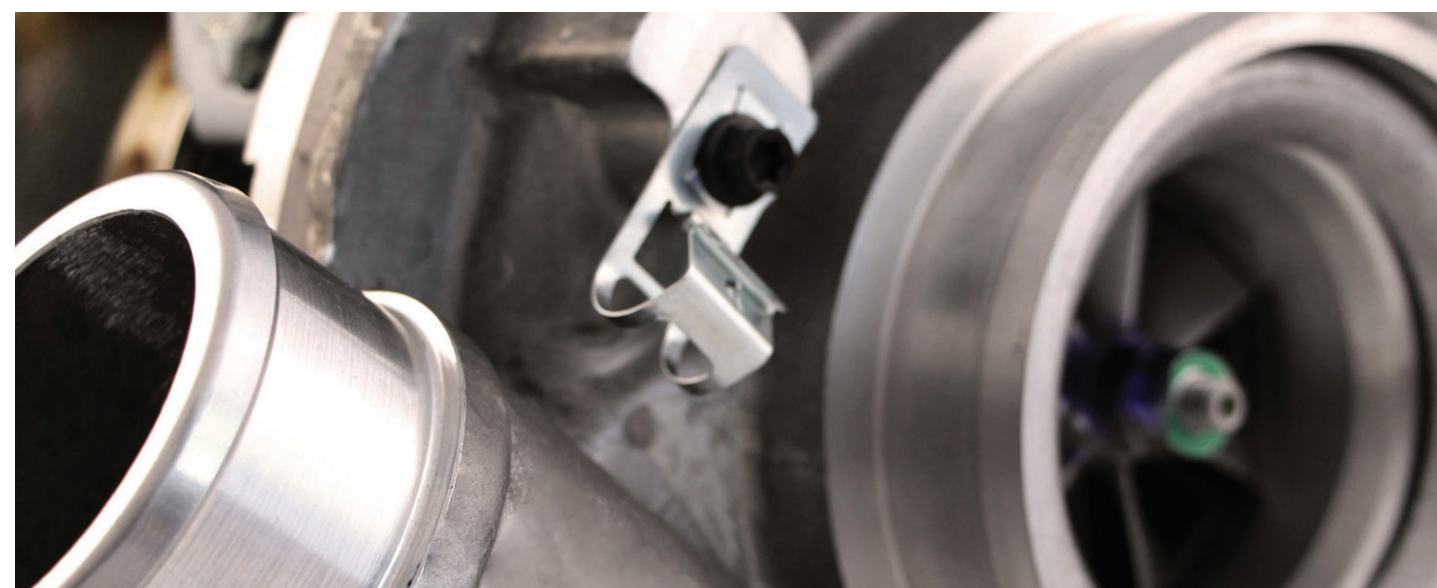
20+ SKUs AVAILABLE



Remanufactured

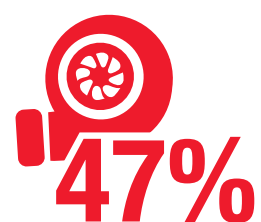
To learn more, visit GPSBrand.com

▶ Premium Diesel Turbochargers



The Growing Turbo Market

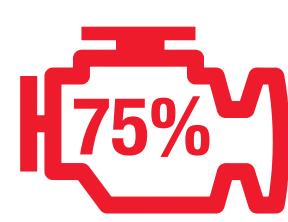
Current CAFE standards have pushed auto makers to increase fuel economy on new vehicles. With the rapid introduction of new smaller displacement turbocharged engines, consumers get V8 power while maintaining V6 fuel economy. Here are some industry predictions for turbochargers by 2020:



Percentage of new vehicles with turbochargers



Number of vehicles with turbo engines



Percentage of turbo market for 4-cylinder engines



Number of new and remanufactured diesel turbochargers offered by GP Sorensen®

Comprehensive Turbocharger Coverage

GP Sorensen® is proud to supply professional technicians with the coverage they need for domestic and import applications. With more than 50 diesel SKUs covering over 6 million VIO, our line features both 100% new OE-quality turbochargers as well as quality-remanufactured turbochargers with OE-quality components.

Domestic Turbochargers

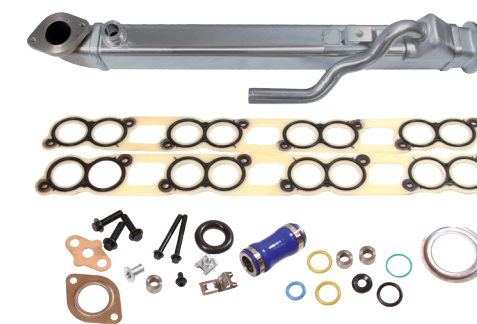
More than 40 new and remanufactured turbochargers for domestic diesel applications.

Import Turbochargers

10 new turbochargers for import diesel applications. And more on the way.

In addition to our strong diesel coverage, GP Sorensen® offers a line of new and remanufactured turbochargers for gasoline engines.

▶ Advanced Diesel Engineering



Improved 20 Spiral Tube Design

Diesel EGR Cooler - 800-97001

Our upgraded EGR cooler design solves the OE issues of clogging and leaking, which means properly cooled combustion and extended lifespan of the EGR valve, engine valves, and head gaskets.



100% New, Upgraded Power Supply

Diesel Fuel Injection Control Module - 800-981001

Remanufactured using our 100% new, upgraded power supply, which distributes heat more evenly and keeps diodes and other critical components cooler to prevent the failure that can occur in competitors' units.



Superior Remanufacturing Process

Diesel High Pressure Oil Pump - 800-18506

Our extensive remanufacturing process includes a complete teardown of the pump, the addition of new critical components, leak checks and thorough testing to ensure a superior, long lasting pump.



Upgraded Pump Design

Diesel Fuel Transfer Pump - 800-96005

Our Diesel Fuel Transfer Pump with upgraded design and flow characteristics delivers quick startups and more consistent fuel pressure at all operating temperatures.



Premium Diesel Parts from the Fuel Injection Expert

