Solutions for Diesel Fuel Systems

- Component Design
- Layout/Packaging
- Cost Reduction
- Field Service Strategies
- Reman Operations
- Instrumentation

- 0-km & Field Quality
- Testing & Test Equipment
- Supplier Development
- Competitive Analysis
- System Application
- Reverse Engineering
Background

- Formed following closure of Robert Bosch Fuel Systems R&D department in Kentwood, Michigan.
- Extensive experience with all types of modern electronic diesel fuel systems.
  - Unit Injectors, Unit Pumps, Conventional Common Rail & Pressure Amplified Common Rail
- Workforce includes:
  - Project Managers
  - Design Engineers
  - Product Engineers
  - Test Engineers
  - Engineering Technicians
- Average associate has 12+ years of diesel fuel system development and production support experience.
- Many associates are also very knowledgeable engine builders.
Background

- Associates have gone from concept to production with:
  - Detroit Diesel
  - Daimler Chrysler
  - Scania
  - Volvo
  - Iveco
  - EMD
  - Mack
  - DAF
  - Deutz
  - Liebherr
  - MTU
  - Nissan Diesel

- Also, associates have worked on development projects with many other prominent diesel engine manufacturers in North America.

- Associates were responsible for all areas of development: design, test, durability, instrumentation, test equipment and customer interface.

- Development was conducted with a variety of ECMs.

- Experience with manufacturing plants around the world.
Design Services

- Fuel system components & assemblies
- Fuel system packaging
- Fuel system instrumentation
- Reverse engineering of competitors products
- Simulation
  - Hydraulic
  - Structural
- Exterior engine components/packaging
- Remanufacturing processes/strategies
- Field service strategies/components/tools
- Project Management
- Supplier Development
- Diesel Fuel System Consulting
Test Services

- Fuel system and component:
  - Performance/reliability – Any aspect
  - Noise levels
  - Accelerated life
- Pressure pulsation – high & low
- Abrasive wear
- Oil dilution analysis
- Cavitation
- Alternative/Blended fuels
- Competitor Analysis
- Debris Sensitivity
Fuel System Test Equipment

- Motored engine reliability rigs
- Motored engine fuel system performance rigs
  - Cavitation
  - Rate tube systems – single and multi-cylinder
- High pressure pulsation
- Field service
- Custom built to order

Fuel System Application (Avail. Oct.06)

- Fuel system components
  - All hardware and sensors
- ECM’s
- Engine management software
- Fuel system application training/support
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