

SUB-SYSTEMS EFFICIENCIES

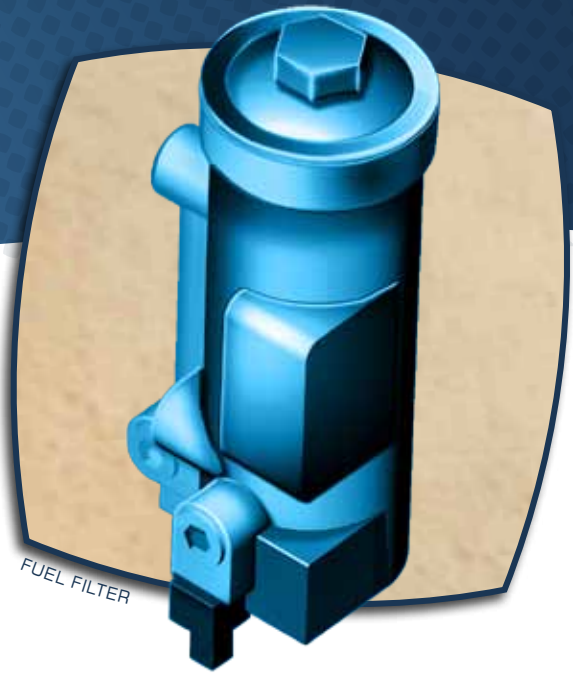
Solutions For Military Vehicles



LINE FRACTURE VALVE



FILTER



FUEL FILTER

ONE OF THE BIGGEST CHALLENGES RELATED TO PROPERLY MAINTAINING MILITARY VEHICLES IS THE POOR CONDITION OF DIESEL FUEL AND THE PERSISTENT CONTAMINATION OF SYSTEM FLUIDS AND LUBRICANTS. WESS offers the engineering and product capabilities essential to help existing and future platforms sustain the cleanliness and purity of system fluids.

DIESEL FUEL FILTERS

The last thing soldiers who man military vehicles should have to worry about is a breakdown due to contaminated diesel fuel. Efficient water separation and the elimination of contaminants is imperative for fuel systems. WESS brings the filtration expertise and product flexibility needed to keep diesel fuel clean with modular, plug-and-play solutions.

Diesel Fuel Filters

- TUV Certification
- Robust Design
- High Water Efficiency
- Easy Maintenance
- Low Investment Costs

LUBRICATION SYSTEMS

Keeping military vehicles functioning at their highest levels relies on proper lubrication. Advancements in automated lubrication technologies and components reduce repairs, prevents waste, and increases uptime. WESS designs and manufactures automated lubrication systems with a focus on reducing maintenance and enhancing fuel efficiency.

Automated Lubrication Systems Provide:

- Increased Bearing Life
- Waste Prevention
- Reduced Maintenance Hours
- Increased Uptime
- Reduced Energy Requirements
- Elimination of Bearing Contamination

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CONCEPT | DESIGN & ENGINEERING | PRODUCT ENGINEERING | PROTOTYPE & TEST
MANUFACTURING | QUALITY | SOFTWARE SOLUTIONS | PROFESSIONAL RESOURCES

WESS
VIRTUALLY DERIVED. EFFICIENTLY APPLIED.

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MOBILE FLUID CONTAMINATION SENSORS

Innovative and intelligent military vehicle systems integrate fluid monitoring and filtration technologies to reduce and eliminate fluid contamination. Keeping system fluids clean involves the detection of contaminants including solid particles, metallic particles, and water. WESS develops fully integrated fluid sensor technologies with the filtration components to ensure optimum performance and reduction of maintenance costs.

Mobile Fluid Contamination Sensors Capabilities:

- Particle and Fluid Monitoring
- Continuous Contamination Recording
- Portable or Stationary Design
- Compact or Stationary Construction
- Preventive and Condition-Based Maintenance

LINE FRACTURE VALVES

Hydraulic systems within military vehicles function in challenging environments. Preparing for harsh operating conditions requires designing these systems to eliminate uncontrolled movements of the actuator in the event of line rupture. Crucial to these designs are the inclusion of line fracture valves within hydraulic systems. WESS provides the engineered systems and components for rugged hydraulic system performance and protection.

Line Fracture Valves Provide:

- Elimination of Uncontrolled Actuator Movement
- Reduction of Hydraulic Oil Spills Due to Line Breaks
- Fast Action
- Compact and Robust Design
- Low Implementation Cost
- Leak Prevention