

TESTING & MAINTENANCE - EMERGENCY DIESEL GENERATOR



WHY EMERGENCY DIESEL MAINTENANCE? – YOUR SUPPLY SECURITY MATTERS!

Emergency diesel generators are the backbone of your independent power supply – whether in hospitals, data centers or industrial facilities. Their full functionality and operational readiness are essential.

Reliability

- ✚ Only regular maintenance ensures that your emergency diesel delivers full performance and starts immediately when needed.

Long Service Life

- ✚ Professional care significantly extends the lifetime of your system and protects your investment from costly replacements.

Legal Compliance

- ✚ Compliance with legal standards, regulations and documentation requirements is essential for safe operation and liability protection.

ADVANTAGES OF REGULAR INSPECTION AND MAINTENANCE

We offer comprehensive service packages for emergency diesel maintenance – tailored to your individual requirements and always carried out to the highest standards.

Reliable Performance Testing

- ✚ Clear results on whether the diesel generator maintains the required runtime and delivers full output under load.

Early Detection of Defects

- ✚ Components and wear are identified before they lead to system failure.

Condition Assessment of the System

- ✚ Technical values provide insight into the actual condition – for better planning reliability and asset preservation.

Well-Founded Decision Making

- ✚ Whether replacement of components, repair or complete renewal – with us, you make the right choice.

Strong Proof and Documentation

- ✚ Measurement reports and test protocols provide solid evidence for warranty or guarantee claims and meet audit requirements.

SERVICES & SUPPORT

OUR MAINTENANCE SCOPE

Our maintenance services guarantee maximum operational safety of your emergency diesel systems. We perform **electrical and mechanical inspections** – not just one or the other. Our team has extensive expertise in both system areas to reliably assess functionality and dependability.

MAINTENANCE ACCORDING TO MANUFACTURER REQUIREMENTS

- ✦ *Engine Oil* – Checking oil level, condition and quality; refilling or replacement if necessary.
- ✦ *Coolant* – Checking coolant level and antifreeze protection; refilling or replacement if required.
- ✦ *Fuel System* – Inspection of fuel level, filters, lines and possible contamination; filter replacement if needed.
- ✦ *Air Filter* – Visual inspection, cleaning or replacement to ensure proper engine performance.
- ✦ *Battery System (Starter Batteries)* – Checking state of charge, electrolyte level, connections and charger functionality.
- ✦ *Belts and Hoses* – Inspection for tension, wear, cracks or leaks.
- ✦ *General Visual Inspection* – Checking for leaks, corrosion, damage and overall system cleanliness.
- ✦ *Cleaning* – Removal of dust, dirt and residues to prevent overheating and operational disturbances.

INSPECTION SCOPE ACCORDING TO REGULATIONS

- ✦ *Regular test runs* – under load to ensure operational readiness
- ✦ *Safety devices* – testing safety and alarm systems
- ✦ *Emission control* – checking exhaust values according to environmental regulations

Starts when everything else stops.

RECOMMENDED MAINTENANCE SCOPE

- ✦ *Fuel Analysis and Conditioning* – Analysis of fuel quality and, if needed, fuel polishing or additives to prevent deposits.
- ✦ *Thermal Analysis* – Thermal imaging of electrical connections and engine components to identify overheating early.
- ✦ *Oil and Coolant Analysis* – Laboratory analysis to evaluate condition and predict wear.
- ✦ *Vibration Analysis* – Measurement of vibrations to diagnose imbalance or mechanical wear on engine and generator.
- ✦ *Documentation and Reporting* – Preparation of detailed maintenance reports, test protocols and recommendations for future actions.
- ✦ *Remote Monitoring* – Integration or verification of remote monitoring systems for system status and alarms.
- ✦ *Fire and Explosion Protection* – Verification of compliance with relevant regulations for fuel storage and system installation.