



**EXPERT CARE  
FOR EVERY ENGINE**

[WWW.GERMAN-DIESEL.COM](http://WWW.GERMAN-DIESEL.COM)



**German  
Diesel Experts LLC**



## WHO WE ARE

German Diesel Experts LLC, established in 2021, is a full-service workshop based in the UAE, specializing in diesel engine overhauling, turbocharger servicing, and rebuilding. With a skilled team of engineers and technicians, we provide reliable onsite and offsite support for light, medium, and heavy-duty applications across automotive, marine, and industrial sectors.



## VISION

To be a global leader in diesel engine services, known for expertise, innovation, and performance excellence.



## MISSION

To provide reliable, high-quality diesel engine repairs that exceed customer expectations and build lasting trust.

# CORE VALUES



Quality Assurance

Efficiency  
with Precision

Excellence  
in Service



# OUR SERVICES

01



## ENGINE OVERHAULING

**ONE-STOP  
SOLUTION FOR EVERY  
ENGINE CHALLENGE**

## INDUSTRIES SERVED

01



Marine



Industrial  
Equipment



Mining



Oil & Gas  
Industry



Machine  
Rental



Cement  
Factories

## SERVICE PROCESS

02

Initial inspection and diagnostics

Disassembly and cleaning of components

Repair or replacement of faulty parts

Precision reassembly with OEM procedures

Dyno testing up to 1000 kW for full performance verification

Final quality check and delivery

## TURNAROUND TIME

03

1–2 weeks (depending on parts availability)

Express option available with pre-ordered parts and reserved stock



## FEATURES & BENEFITS

04

Cost-effective and transparent repairs with an old-parts return policy

Extended warranty for customer peace of mind

All-in-one solutions under one roof (fuel system, turbocharger, dyno testing, engine rebuild)

After-sales support from brand-trained technicians

## CUSTOMER VALUE

05

Reduced downtime with faster lead times

Genuine spare parts ensure reliability and performance recovery

Factory-level standards without dealership pricing

## TOOLS & TECHNOLOGY USED

06

Dyno testing systems (up to 1000 kW)

Schenk balancing machines for turbochargers

Laser rust removal equipment

High-pressure and ultrasonic cleaning systems

Sand blasting equipment

16+ OEM diagnostic tools (CAT, MTU, Deutz, Volvo, Cummins, Scania, Renault, etc.)

## BRANDS & MODELS COVERED

07



**KOMATSU**



All logos shown are the property of their respective owners and are used for illustrative purposes only

## WARRANTY

08

- 6 months or 1000 hours (whichever comes first)

## SERVICE AVAILABILITY

09

- Available onsite and offsite
- 24/7 support (case-to-case basis)

## PRICING

10

- Case-by-case basis (tailored to engine model, condition, and scope of work)

02



## TURBOCHARGER SERVICING

**PRECISION  
BALANCED FOR  
MAXIMUM EFFICIENCY**

## INDUSTRIES SERVED

01



Automotive



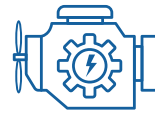
Marine



Industrial  
Equipment



Oil & Gas  
Industry



Power  
Generation



Construction  
& Heavy  
Machinery

## SERVICE PROCESS

02

Visual inspection and fault diagnosis

Complete disassembly and cleaning

Repair or replacement of CHRA/cartridges

High-speed balancing with Schenck machines

Flow and oil leak testing for performance accuracy

Reassembly, quality checks, and delivery

## TURNAROUND TIME

03

1–2 days

Express options available for urgent requirements



## FEATURES & BENEFITS

04

Manufacturer-level quality with balancing and performance reports

Cost-effective alternative to full turbo replacement

Reduced downtime and extended component life

## CUSTOMER VALUE

05

Reliable, precision-restored turbochargers

Lower maintenance and replacement costs

Improved engine performance and efficiency

## TOOLS & TECHNOLOGY USED

06

Schenck high-speed balancing machine

Flow testing bench

Oil leak test bench



## BRANDS & MODELS COVERED

07

- Supports all types and brands of turbochargers for light, medium, and heavy-duty applications

## WARRANTY

08

- 6 months warranty on rebuilt units

## SERVICE AVAILABILITY

09

- Onsite and offsite support available

## PRICING

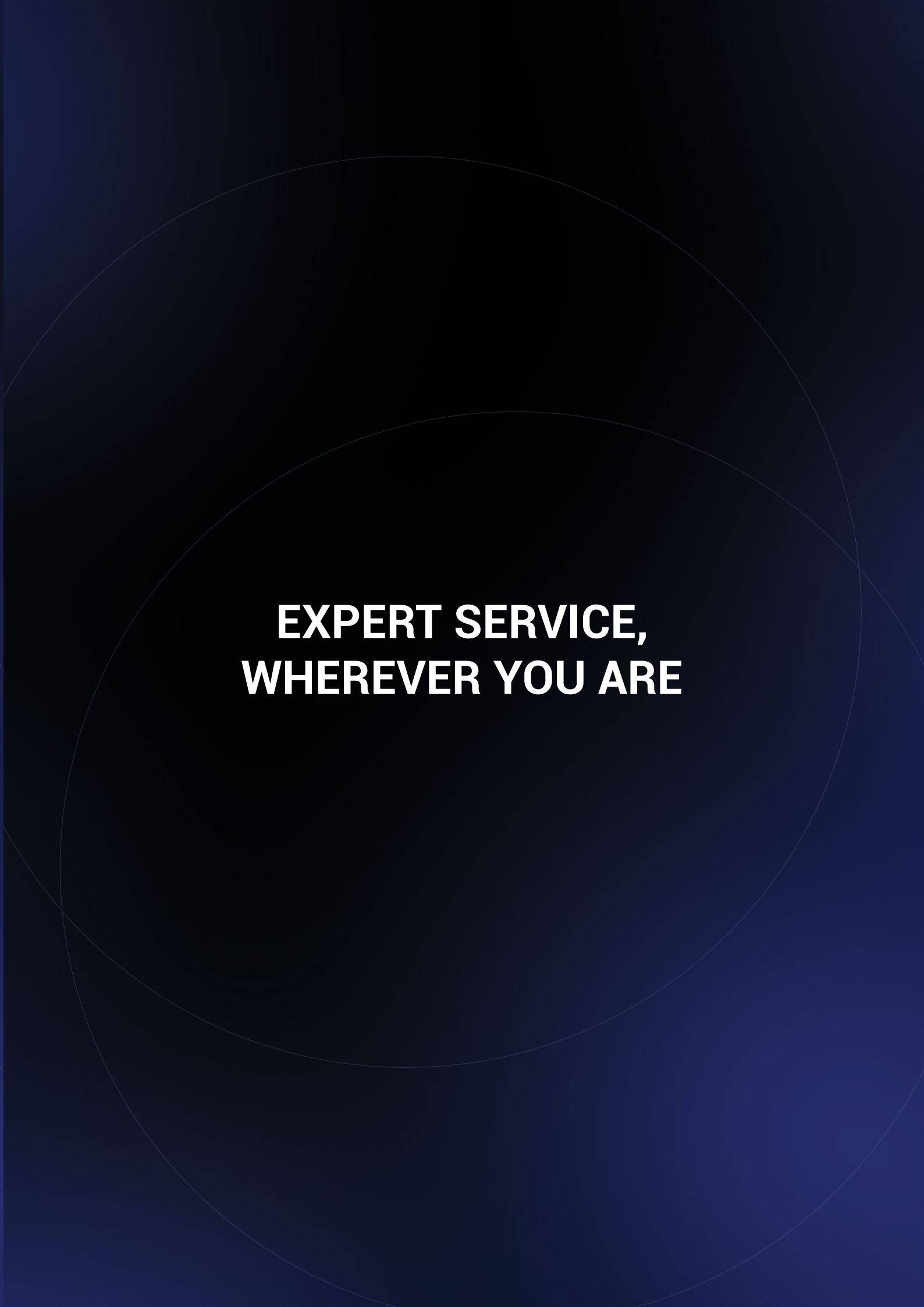
10

- Case-by-case pricing (based on model and scope of repair)

03



**ON-SITE & OFF-SITE  
SUPPORT**



**EXPERT SERVICE,  
WHEREVER YOU ARE**



## INDUSTRIES SERVED

01



Marine



Industrial  
Equipment



Mining



Machine  
Rental



Cement  
Factories

## SERVICE PROCESS

02

Initial inspection & fault detection

Troubleshooting & diagnostics using OEM-level tools

On-site repairs or arrangement for off-site servicing if required

Testing & validation of performance

Job completion report delivered to customer

## TURNAROUND TIME

03

4–5 hours

## FEATURES & BENEFITS

04

### **Dealer-Experience Technicians:**

Expertise across multiple leading brands.

### **Multi-Branded Support:**

Caterpillar, Deutz, Cummins, MTU, Komatsu, Perkins.

### **Faster & Cost-Effective:**

Minimizes downtime while ensuring efficiency.

### **Reduced Downtime:**

Quick response and accurate troubleshooting.



## TOOLS & TECHNOLOGY USED

05

16+ Premium Brand Diagnostic Tools for precise, manufacturer level fault detection.

Supported by technicians with brand-specific expertise.

## BRANDS & MODELS COVERED

06



## WARRANTY

07

- Not applicable for support services

## SERVICE DURATION

08

- Typical service time: **2–3 hours**.
- Urgent/express support available upon request.

## SERVICE AVAILABILITY

09

- Not available 24/7.
- Both on-site and off-site support provided.
- Spare parts delivery available on a case-by-case basis.

# OUR TECHNICAL EDGE



## DYNO TESTING: VALIDATING PERFORMANCE, ENSURING RELIABILITY

As part of our advanced service offering, we provide Dyno Testing, a precision method to verify engine and component performance under real operating conditions. This ensures every repair or rebuild meets the highest standard of power, efficiency and reliability.

## KEY BENEFITS

### **Accurate Performance Measurement**

Power, torque, and efficiency are validated with precision.

### **Fault Diagnosis**

Identifies performance issues that may not be visible during standard workshop checks.

### **Fuel Efficiency Optimization**

Ensures engines operate at peak fuel economy while reducing emissions.

### **Reliability Assurance**

Validates durability and performance before engines return to service.





## APPLICATIONS

- Heavy-duty diesel engines (trucks, construction machinery, generators, marine, industrial).
- Performance validation after major repairs or overhauls.
- Customer assurance for high-value fleet operations.





# ADVANCED WATER BRAKE DYNAMOMETER FOR HIGH-PERFORMANCE ENGINE TESTING

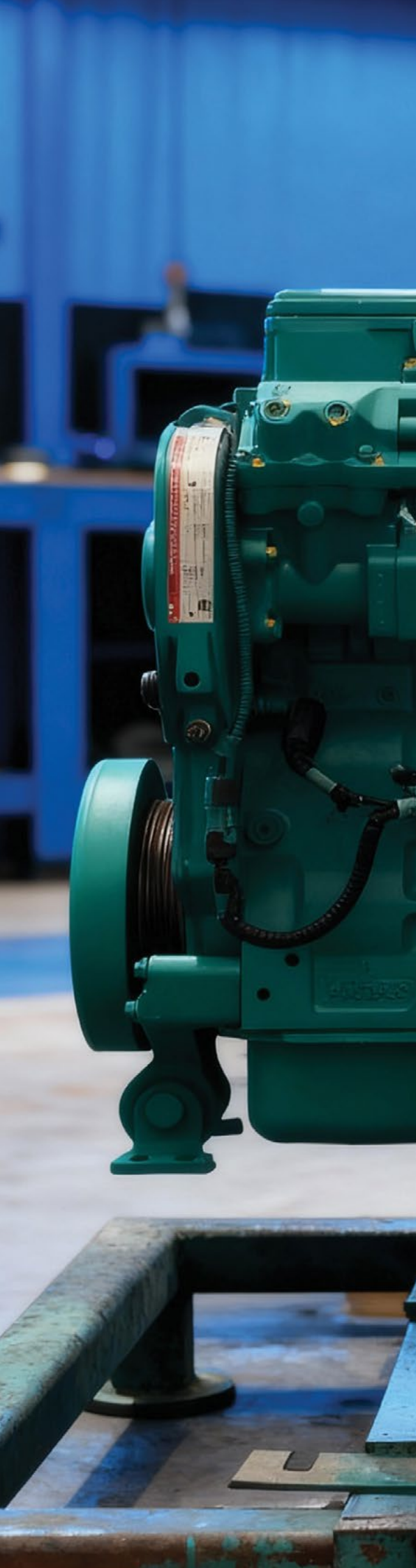
We also offer cutting-edge engine testing solutions with the latest water brake dynamometer technology. Designed to meet the rigorous demands of modern engine development, our dynamometers provide unmatched accuracy, control, and reliability, making them ideal for testing a wide range of high-performance electronic engines.

Built to support engines up to 1,250 hp (932 kW), the system features advanced load control and data acquisition for precise, repeatable measurements.



## KEY TECHNICAL CAPABILITIES

- Maximum Power Handling : **1,250 hp (932 kW)**
- Maximum Torque Capacity : **3,600 ft-lb (4,881 Nm)**
- Minimum Controllable Power : **11 hp (5 kW)**
- Minimum Controllable Torque : **32 ft-lb (24 Nm)**



## ADVANCED TECHNOLOGY INTEGRATION

### **Electronic Engine Testing Compatibility**

Supports modern electronic engines with high-speed data logging and advanced control interfaces.

### **Precision Load Control**

Fast-reacting load cells and control valves ensure accurate torque and speed management.

### **Automated Data Acquisition**

Captures real-time metrics including RPM, torque, power, fuel consumption, and emissions.

### **Modular & Scalable Design**

Flexible setup for different engine types and testing standards.

### **Robust Cooling & Safety Systems**

High-efficiency water cooling and built-in safety protocols for stable high-load operation.

This dynamometer reflects our commitment to delivering next-generation engine testing solutions that combine innovation, performance, and reliability.

## WHY IT MATTERS

Our Dyno Testing capability underscores GDE's commitment to next-level service, providing clients with confidence that every engine performs at its peak.



## DIAGNOSTIC TOOLS AT GDE

We equip our engineers and technicians with a comprehensive range of powerful diagnostic tools to service all major diesel engine brands and models, including Caterpillar, Cummins, Detroit Diesel, Hino, Isuzu, Perkins, Volvo, and more.

Our advanced diagnostic systems enable precise fault detection, performance monitoring, and efficient troubleshooting, ensuring faster turnaround and reliable repairs. Key tools include:



### **All Scanner**

Heavy-duty truck diagnostics for CAT, Volvo, Hino, Cummins, Nissan – detects fault codes, reads data streams, and resets systems.

### **Deutz DECOM**

Specialized for Deutz engines; monitors ECU communications to diagnose engine electronics faults.

### **Bosch KTS Truck**

Diagnoses sensors and ECU faults on trucks, vans, trailers, buses, and off-highway vehicles.

### **Caterpillar Electronic Technician (Cat ET)**

Communicates and diagnoses electronically controlled CAT engines and machinery.

### **Isuzu IDSS**

All-in-one hardware and software for diagnosing and repairing Isuzu trucks, buses, and industrial engines.

## Cummins Inline 6 & Inline 7

PC-based software offering quick access to engine electronic performance for fast service and calibration.

## JCB Electronic Service Tool

Efficient fault finder for heavy-duty vehicles, calibrates ECM, and programs system blocks.

## Launch X431 PAD V

Advanced car fault diagnostic device supporting a wide range of global vehicle models with one-click online updates.

## Delphi DS150E

Versatile tool offering high capability diagnostics for many makes and models.

## Max Scan

OBD2 scanner compatible with most US, European, and Asian vehicles post-1996, displaying fault codes on screen.



With these tools, GDE ensures expert diagnostics and repair precision across all your diesel engine needs.

# WHY CHOOSE US

## 01

### DEALER-LEVEL EXPERTISE

Our team includes technicians trained at leading OEM dealerships like Cummins, Caterpillar, and Deutz, bringing factory-level precision to every repair.

## 02

### FASTER TURNAROUND

With streamlined processes, in-house facilities, and ready access to parts, we minimize downtime and get your engines back to work quickly.

## 03

### OEM QUALITY & TRANSPARENCY

We use genuine parts and advanced diagnostics while maintaining a transparent old-parts return policy, so you always know what goes into your repair.

## 04

### PROVEN RELIABILITY

From marine to mining and industrial applications, clients trust us for consistent, high-performance results that stand the test of time.



# THE BENCHMARK IN DIESEL ENGINE SERVICES



Verband der Motoren-  
Instandsetzungsbetriebe

## WE ARE A CERTIFIED VMI MEMBER

The VMI – Association of Motor Repair Companies eV, founded in 1948 in Germany, represents engine repair shops with a focus on high-performance standards, specialization, and collaboration. Since April 2022, GDE has been a proud member of VMI, and the only diesel engine workshop in the UAE within the VMI network. This recognition gives us a distinct advantage in quality, reliability, and technical expertise across the industry.



**German**  
**Diesel Experts LLC**

24B St, Al Qusais, Industrial Area 4,

PO Box 232096 - Dubai, UAE

M: +971 5650 86 786 T: +971 4 265 9912

E: [info@german-diesel.com](mailto:info@german-diesel.com)

w: [www.german-diesel.com](http://www.german-diesel.com)