



OS**DIESEL**TECHNOLOGIE

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OS Diesel Technologie
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Injectors & pumps for common rail

LKW's, Tractors & Landmachines

1. Supplier of new and remanufactured injectors & pumps
2. Injector & pump testing
3. Injector and pump repair



Injector cleaning & testing

Injectors are ultrasonically cleaned to remove carbon in preparation for visual inspection. Critical areas of the Injectors are examined for wear or damage.



Injector cleaning & testing



Injectors flushed, contents collected in a glass container and examined for contaminants. Visual check for good spray pattern and fuel atomisation. Nozzle opening pressure is tested and a static leak test carried out to check for nozzle drip.



Injector testing

Electrical components of the injector are tested using OE equipment

Different injector types have different electrical values. The solenoid must fall within the allowable parameters to pass. Static electrical tests are performed using handheld devices. Dynamic electrical tests are also performed on the test bench while the injector is in full operation

Inductance: shown as μH (microHenry)
Resistance: of the coil shown in Ω (Ohm)
insulation resistance: shown in $\text{m}\Omega$ (megaOhm)



BOSCH



Delphi
Technologies

Injectors tested with state-of-the-art test benches.
All fuel deliveries controlled (full load, full load return,
emission point, idling and pilot delivery).
OE specification test plans
Printed test report available on request.



All makes of CRIN injectors tested
Bosch: MAN, DAF, Scania, CASE, Iveco, Fendt
New Holland, Volvo Penta, Deutz CRIN 4.2
Delphi: EUI DAF, MERC Euro4, Euro5
Denso: John Deere, Isuzu, Komatsu
Caterpillar: Perkins

Injector repair and calibration procedure

Computerised stage 3 procedure used for measuring and calibrating all makes of CRIN injectors. Individual plans specific for each injector number. This equipment aids in the speed and precision of the injector rebuild.





Injector repair and calibration procedure

Specialised workshop equipment and machines are used to validate the internal components of the injector. Worn or faulty components are replaced. A repaired injector must pass strict quality control tests before being deemed suitable.



Two report styles available. An easy-to-read pass or fail graphic or a more detailed report showing the values.





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Test results 5/30/2021 8:26 PM

Operator: John O'Sullivan Injector: 0445120074
 Vehicle: FENDT Identification no.: A32
 Serial number
 1: A32-1 2: A32-1 3: A32-3 4:

Opening pressure test. Opening pressure


		1	2	3	4
150-200	bar	✓	✓	✓	


Test of initiation injection. Start injection

		1	2	3	4
150-200	µsec	✓	✓	✓	

Injectors' delivery test

Delivery					Return				
mm ³ /str	1	2	3	4	mm ³ /str	1	2	3	4
Injectors' condition test. Leak back test									
0.0	0.1	✓	✓	✓	0.0	80.0	✓	✓	✓
Check injectors delivery at Full load (VL)									
180.0	201.0	✓	✓	✓	0.0	80.0	✓	✓	✓
Check injectors delivery at Full load (VL)									
187.0	209.0	✓	✓	✓	0.0	80.0	✓	✓	✓
Check injectors delivery at Part load (TL)									
3.0	13.2	✓	✓	✓					
Check injectors delivery at Idle (LL)									
0.5	6.9	✓	✓	✓					





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Test results 5/30/2021 7:52 PM

Operator: John O'Sullivan Injector: 0445120074
 Vehicle: FENDT Identification no.: A32
 Serial number
 1: A32-1 2: 3: 4:

Opening pressure test. Opening pressure

		1	2	3	4
150-200	bar	150			

Test of initiation injection. Start injection

		1	2	3	4
150-200	µsec	200			

Injectors' delivery test

Delivery					Return				
mm ³ /str	1	2	3	4	mm ³ /str	1	2	3	4
Injectors' condition test. Leak back test									
0.0	0.1	0.0			0.0	80.0	6.6		
Check injectors delivery at Full load (VL)									
180.0	201.0	186.7			0.0	80.0	30.8		
Check injectors delivery at Full load (VL)									
187.0	209.0	192.9			0.0	80.0	29.3		
Check injectors delivery at Part load (TL)									
3.0	13.2	7.6							
Check injectors delivery at Idle (LL)									
0.5	6.9	2.6							

Pump testing



All makes of pumps tested
Bosch: CP1, CP3, CP3-H, CP4-S1 / S2
Delphi: DFP1 / 1.5, DFP3, DFP6
Denso: HP2, HP3, HP4
Siemen VDO: various

