

Compression test data

Many factors affect compression pressures, the battery, starter motor condition, ambient conditions and the type of gauge used can give a wide variation of results for a given engine.

Standard value	To be repaired
>2940 kPa (426.6 lbf / in ²) @ 250 rpm	<2450 kPa (355.5 lbf / in ²) @ 250 rpm

Compression tests should only be used to compare between cylinders of an engine. If one or more cylinders vary by more than 350 kPa (50 lbf / in²) then those cylinders may be faulty.

Compression tests should not be the only method used to show the condition of an engine, but they should be used together with other symptoms and tests.

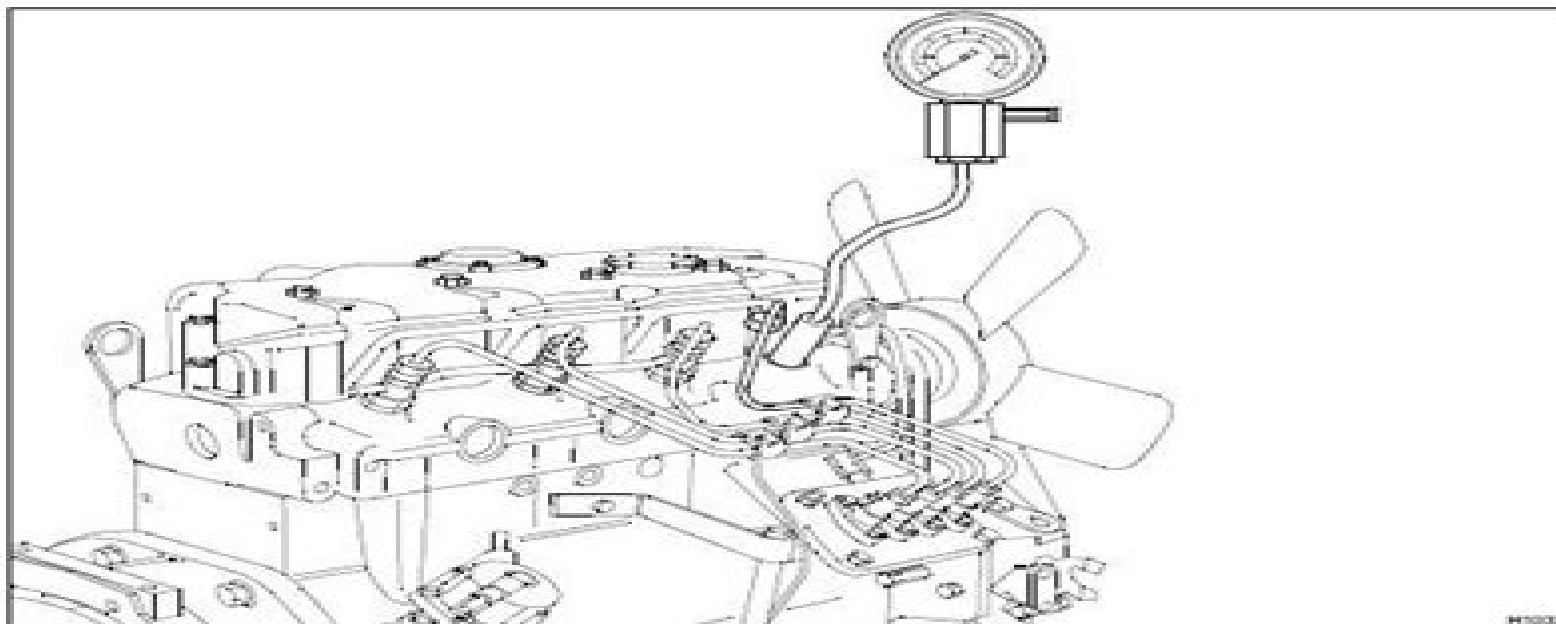
How to do a compression test

Note: Before the compression test, ensure that the battery is in good condition and fully charged. Also ensure the starter motor is in good condition.

- 1 Ensure that the valve tip clearances are set correctly.
- 2 Remove the atomisers, see Operation 11-1.
- 3 Fit a suitable gauge into the atomiser hole of the cylinder to be tested.
- 4 Disconnect the stop solenoid or put the stop solenoid in the no fuel position. Operate the starter motor and record the pressure indicated on the gauge.

Caution: Do not remove the stop solenoid as this will allow the engine to start.

- 5 Repeat for each cylinder.



H1003

Perkins Diesel Engine 400 Series Repair Manual

S Ashworth



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Decoding **Perkins Diesel Engine 400 Series Repair Manual**: Revealing the Captivating Potential of Verbal Expression

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