## 01-0150 Testing cylinders for leaks

and flat rates 01-1300 warm up to operating temperature. Engine ....... Ground cable at battery ....... disconnect, connect. Spark plugs ...... remove, install (15-1031). Cap on coolant expansion reservoir ...... open, close. Do not open cap unless coolant temperature is below 90 °C. Risk of scalding! Coolant level ...... adjust to correct level (20-0100). Oil filler cap ....... open, close. Cylinder leak tester ...... connect to compressed air system. calibrate. Connection hose ....... screw in to first spark plug hole, remove. position with adjuster by turning crankshaft to Piston of cylinder to be tested ..... ignition TDC. Piston in ignition TDC ...... see table. Connection hose of tester ...... connect, disconnect. Compression chamber ...... pressurise. The crankshaft must not rotate; if necessary secure crankshaft with locking device to prevent it rotating (03-5000). Throttle valve .............. open by hand. Pressure loss on tester in % ....... read off. Pressure ...... determine whether leak through intake manifold, exhaust, oil filler opening, spark plug hole of adjacent cylinder or coolant filler opening (at reservoir). All cylinders ...... test in firing order (1-5-4-8-6-3-7-2).

Operation no. of operation texts and work units or standard texts

## Data

Total pressure loss	max. 25 %
At valves and cylinder head gasket	max. 10 %
At pistons and piston rings	max. 20 %

Marking index	Piston in TDC	
0	1 and 6	
90	5 and 3	
180	4 and 7	
270	8 and 2	

## Commercially available tool

<del> </del>		
Cylinder leak tester	e. g.	Bosch, EFAW 210A
-,	- 3	Sun, CLT 228
		Ouri, OL1 220