



COMPRESSION, LEAKAGE & TDC KIT

MODEL NO: VSE3156.V3

Thank you for purchasing a Sealey product. Manufactured to a high standard, this product will, if used according to these instructions, and properly maintained, give you years of trouble free performance.

IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS & CAUTIONS. USE THE PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. KEEP THESE INSTRUCTIONS SAFE FOR FUTURE USE.



Refer to instructions



Wear eye protection



Wear protective gloves



Wear safety footwear



Wear protective clothing

1. SAFETY

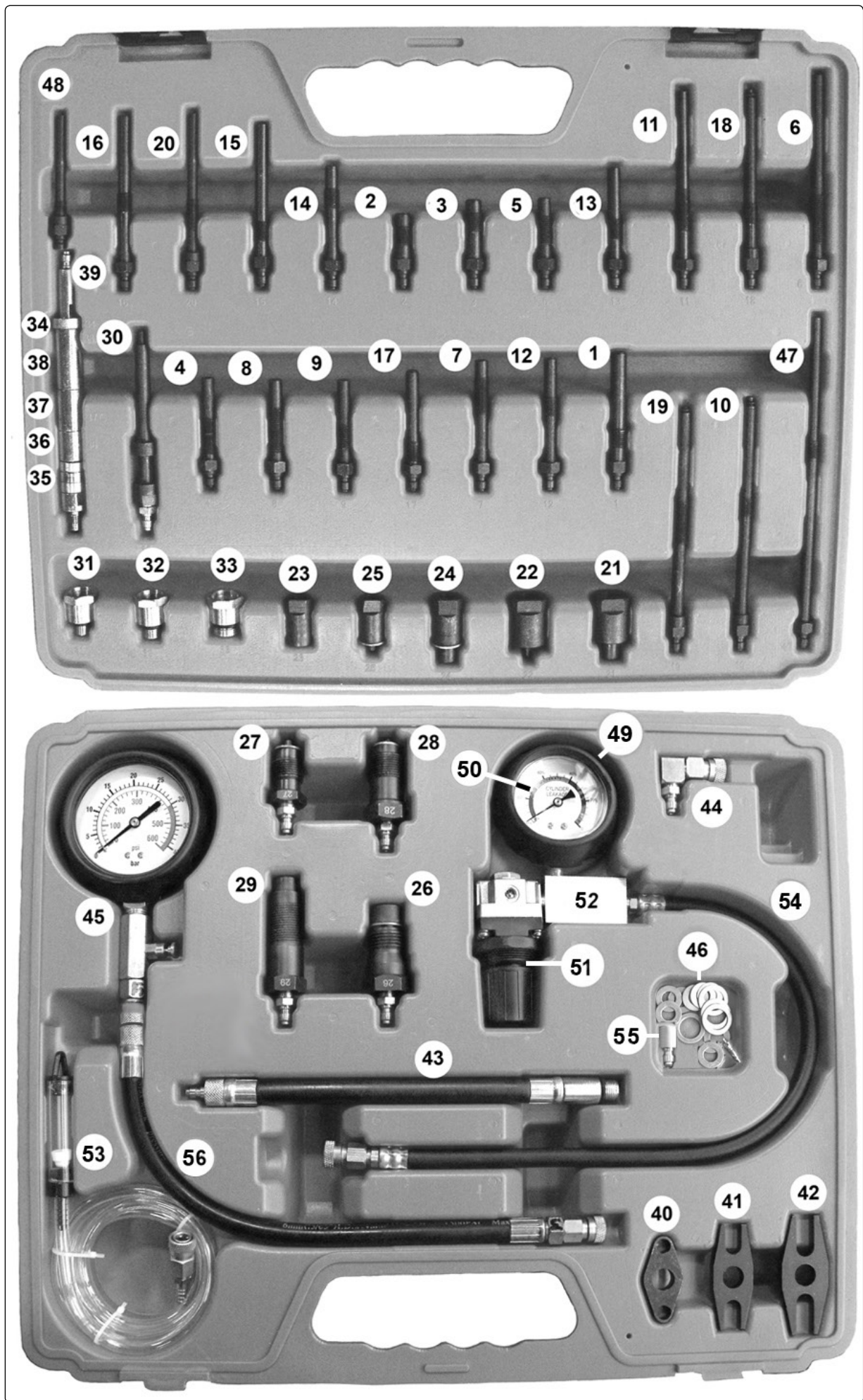
- ❑ **WARNING!** Ensure all Health and Safety, local authority and general workshop practice regulations are adhered to when using these tools.
- × **DO NOT** use tools if seals or threads are damaged. Any defective seal **MUST** be changed before use to avoid incorrect readings.
- ✓ Maintain the tools in a good, clean condition for best and safest performance.
- ✓ Ensure that a vehicle that has been jacked up is adequately supported with axle stands.
- ✓ Wear approved eye protection. A full range of personal safety equipment is available from your Sealey Stockist.
- ✓ Wear suitable clothing to avoid snagging, tie back long hair and **DO NOT** wear jewellery.
- ✓ Ensure any disconnected fuel pipes are plugged to avoid spillage.
- ✓ Ensure that the correct connector is used for the engine/vehicle being tested.
- ✓ Always release the pressure from the gauge before disconnecting the quick release coupling.
- ✓ Account for all tools, and parts being used and **DO NOT** leave them in or near the engine.
- ❑ **WARNING!** Select neutral (or 'park' if automatic transmission) and keep hands clear of the engine as engine rotation may occur when using these tools. The ignition **MUST BE** turned off, and only switched on when instructed to do so.
- ❑ **WARNING!** (Leakage Tester) Turn regulator knob fully anti-clockwise before connecting to compressed air. Excess pressure will damage the gauge and will invalidate the warranty.
IMPORTANT: Always refer to the vehicle manufacturer's service instructions, or a proprietary manual, to establish the current procedure and data. These instructions are provided as a guide only.
- ✓ When not in use, return all parts to the protective case and store this in a safe, dry, childproof location.
- ❑ **WARNING!** The warnings, cautions and instructions referred to in this manual cannot cover all possible conditions and situations that may occur. It must be understood that common sense and caution are factors which cannot be built into this product, but must be applied by the operator.

2. INTRODUCTION

A comprehensive kit for testing the compression and leakage on both diesel and petrol vehicles. Features 600psi gauge with large rubber bumper, straight and right angled quick connect fittings and an extensive range of spark/glow plug and injector adaptors. Includes TDC finder, ideal for use when the engine has no crankshaft timing marks. Supplied in carry-case. See instructions on Sealey website for complete vehicle applications.

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| 2 | VSE3155.02 | 2-Connector | 21 | VSE3155.21 | 21-Connector | 40 | VSE3155.40 | Bridge Piece (Small) |
| 3 | VSE3155.03 | 3-Connector | 22 | VSE3155.22 | 22-Connector | 41 | VSE3155.41 | Bridge Piece (Medium) |
| 4 | VSE3155.04 | 4-Connector | 23 | VSE3155.23 | 23-Connector | 42 | VSE3155.42 | Bridge Piece (Large) |
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| 13 | VSE3155.13 | 13-Connector | 32 | VSE3155.32 | Connector 12mm | 51 | VSE2020.V2-02 | Valve Assembly |
| 14 | VSE3155.14 | 14-Connector | 33 | VSE3155.33 | Connector 18mm | 52 | VSE3156.V3-05 | Aluminium Block |
| 15 | VSE3155.15 | 15-Connector | 34 | VSE3155.34 | Spacer 6.4mm | 53 | VSE3156.TDC | TDC Finder |
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| 17 | VSE3155.17 | 17-Connector | 36 | VSE3155.36 | Spacer 19mm | 55 | VSE3156.01 | Blanking Connector |
| 18 | VSE3155.18 | 18-Connector | 37 | VSE3155.37 | Spacer 26mm | 56 | VSE3155V4.45A | Gauge Hose |
| 19 | VSE3155.19 | 19-Connector | 38 | VSE3155.38 | Spacer 38mm | - | - | - |



4. SPECIFICATION

| | |
|---|---|
| Model No:..... | VSE3156.V3 |
| Spark Plugs; | 10, 12, 14, 18mm |
| Injector Adaptors; | M20, M22, M24 & Ford Stanadyne Injectors plus |
| Clamp-On Injectors | 10, 12, 14, 18mm |
| Nett Weight: | 5.43Kg |
| Reading: | Cylinder Leakage % |
| Glow Plug Adaptors; | |
| Alfa Romeo, BMW, Chrysler, Citroen, Daewoo, Fiat, Ford, Honda, Hyundai, Isuzu, Jeep, Kia, Lada, Lancia, Land Rover, LDV, Mazda, Mercedes, MG, Mitsubishi, Nissan, Peugeot, Renault, Rover, Saab, Ssangyong, Suzuki, Toyota, VAG, Vauxhall/Opel, Volvo | |

5. OPERATION

5.1. OVERVIEW OF COMPRESSION TESTING.

When an engine's performance is down, or if misfiring occurs which cannot be attributed to the ignition or fuel systems, a compression test can provide diagnostic clues as to the engine's condition. Compression should build up quickly in a healthy engine. A very low compression reading on the first stroke, followed by gradually increasing pressure on successive strokes, indicates worn piston rings. A low compression reading on the first stroke, which does not build up during successive strokes, indicates leaking valves or a faulty head gasket (a cracked head could also be the cause). Deposits on the undersides of the valve heads can also cause low compression. If the pressure in any cylinder is considerably lower than the others, introduce a small quantity of clean oil into that cylinder through the access hole, and repeat the test. If the addition of oil temporarily improves the compression pressure, this indicates that bore or piston wear is responsible for the pressure loss. If there is no improvement, it suggests that the leakage is around the valves, or a faulty head gasket. A low reading from two adjacent cylinders suggests a faulty head gasket between the two cylinders. The presence of coolant in the engine oil will confirm this. If the compression is unusually high, the combustion chambers are probably coated with carbon deposits. If this is the case, the cylinderhead should be removed and de-carbonised. As a rough guide, engines having a compression pressure in excess of 100psi (6.9 bar), should not exceed a compression loss of more than 10psi (0.69 bar). On older engines with lower compression pressure, loss should not exceed 0.35 bar (5psi).

5.2. COMPRESSION TESTING.

- 5.2.1. Check the engine oil is at the correct level.
 - 5.2.2. Remove all of the glow plugs/spark plugs from the engine.
 - 5.2.3. Select the applicable adaptor from the kit and screw it into the first glow/spark plug port, ensuring there is a good seal with the O-ring (if fitted). Connect the coupling on the pressure gauge hose to the adaptor, ensuring it locks into place.
 - 5.2.4. Turn over the engine using the starter motor and observe the gauge, looking for a steady increase in the reading (see 5.1) and note the maximum reading obtained. Refer to the vehicle/engine manufacturer's workshop manual for compression data.
 - 5.2.5. Depress the Re-set Valve (situated under the gauge) to release the pressure. The Re-set Valve allows the test to be repeated if required without disconnecting the tester from the glow/spark plug port.
- WARNING!** Always release pressure via the Re-set Valve BEFORE disconnecting the Tester.
- 5.2.6. Disconnect the compression tester from the adaptor and remove the adaptor from the glow/spark plug port. Install them into the next cylinder's glow/spark plug port and repeat the tests. Continue the tests for all of the remaining cylinders in turn.

NOTE: A variation in compression readings between cylinders is often a better indication of engine problems than the individual values of compression.

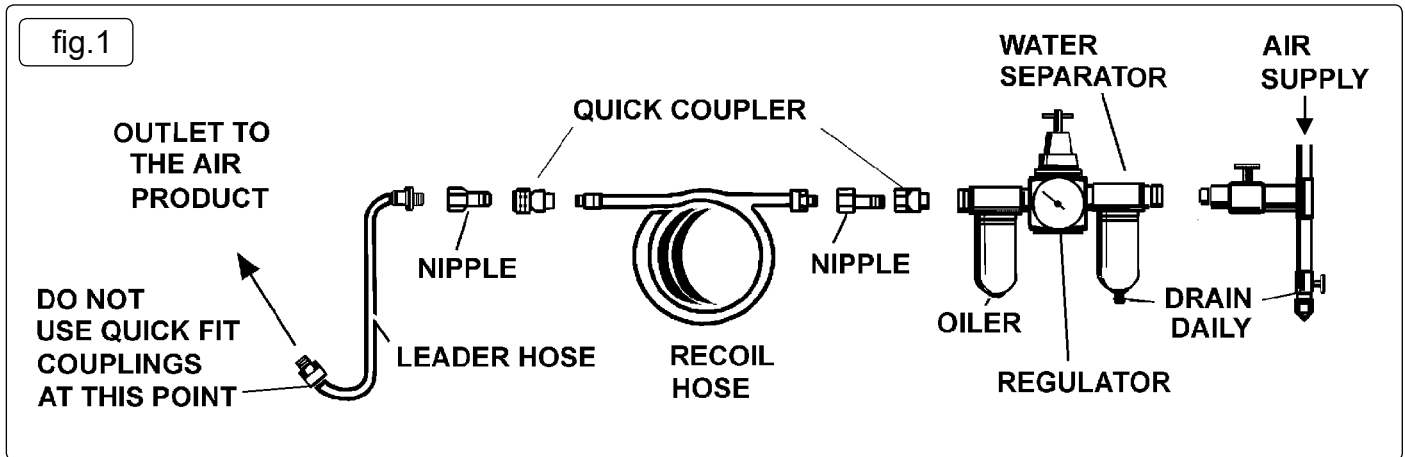
| COMPRESSION CONDITION | ACTION/DIAGNOSIS |
|---|---|
| Low compression reading on some cylinders. | (a) Use oil in cylinder to see if rings are worn. (b) If compression increases, rings and/or cylinder wall are worn. (c) If compression does not rise, do a cylinder leakage test to determine source of problem. |
| High relative compression readings and relatively equal cylinder readings. | If excessive exhaust emissions, lack of power, poor performance, or poor fuel consumption do a cylinder leakage test to determine source of problem. |
| Lower relative compression readings. One or more cylinders lower than others. | Do a cylinder leakage test to determine source of problem. |

5.3. TDC INDICATOR TOOL.

- 5.3.1. Remove the glow/spark plug from cylinder number 1. It may also be necessary to remove all glow/spark plugs to facilitate manual turning over of the engine.
- 5.3.2. Select the applicable adaptor from the kit and screw it into the glow/spark plug port of cylinder number 1. Ensure that there is a good seal with the O-ring (if fitted). Connect the coupling on the TDC finder to the adaptor, ensuring it locks into place.
- 5.3.3. Position the indicator in a vertical position, in a suitable viewable location, using the magnetic hook if needed.
- 5.3.4. Turn the engine over manually, using a spanner or socket on the crankshaft pulley, in the direction of engine rotation and watch for the float to rise in the tube. As the piston rises on the compression stroke, the float will rise to the top of the tube and stay there, when the piston goes past TDC and compression is lost, the float will suddenly sink. Note the position and temporarily make suitable marks to indicate TDC, or compare with existing timing marks.
- 5.3.5. Turn the engine over a further 1¼ turns and the float should start to rise again as the piston rises on the compression stroke. Continue to slowly turn the crankshaft towards TDC (watching the timing marks) - note the exact point when the float drops. Alter the timing mark if required.
- 5.3.6. Repeat the procedure, turning the engine over a further 2 turns to re-check for accuracy.
- 5.3.7. Disconnect the TDC tool from the adaptor and remove the adaptor from the glow/spark plug port.

5.4. LEAKAGE TESTING - CONNECTING TO AN AIR LINE.

- 5.4.1. The recommended hook-up is shown in Fig.1. An air pressure of 45 to 100psi is required.
- 5.4.2. Ensure that the air valve regulator is in the "off" position before connecting to the air supply.
 - **WARNING!** Ensure that the air supply is clean and does not exceed the pressure quoted. Too high an air pressure and/or unclean air will shorten the life of the tester due to excessive wear and may be dangerous, causing damage and/or personal injury.
- 5.4.3. Drain the compressor air tank daily. Water in the air line will damage the tester.
- 5.4.4. Clean compressor air inlet filter weekly.
- 5.4.5. Line pressure should be increased to compensate for unusually long air hoses (over 8 metres). The minimum bore for hose and fittings is 1/4".
- 5.4.6. Keep hoses away from heat, oil and sharp edges. Check hoses for wear and make certain that all connections are secure.



5.5. OVERVIEW OF LEAKAGE TESTING.

Once the leakage tester has been connected to one of the cylinders, compressed air is fed into that particular cylinder through the built in pressure regulator. Diagnosis is made by observing the amount of leakage that is indicated on the cylinder leakage gauge and by listening for leakage at various points of the vehicle's system.

Location of listening points:

- | | |
|------------------------------|--|
| Oil Dipstick Tube | - for leakage from damaged or worn rings and/or cylinder wall. |
| Radiator Filler | - for cylinder wall cracks or head gasket leakage. |
| Adjacent Cylinder | - for head gasket leakage. |
| Exhaust Tail Pipe | - for exhaust valve leakage. |
| Carburettor Air Inlet | - for intake valve leakage. |
| Fuel Injection Throttle Body | - for intake valve leakage. |

5.6. USING THE LEAKAGE TESTER.

- 5.6.1. Run the engine until it reaches normal operating temperature.
- 5.6.2. Remove glow/spark plugs, oil dipstick, radiator cap, air filter from carburettor, or if fuel injected, remove air filter or hose from the throttle body.
- 5.6.3. Position No.1 piston at TDC on the compression stroke so that both inlet and exhaust valves are closed.
- NOTE:** Always rotate the engine in the normal operating direction. To position the piston correctly, use a piston position gauge and remove the cam/rocker cover so that closed valves can be confirmed.
- 5.6.4. **Diesel engines:** Fit a suitable connector into the glow plug aperture, then connect the hose (54) onto this.
- 5.6.5. **Petrol engines:** Fit a connector (31, 32 or 33) into the spark plug aperture, then screw the hose (43) onto this, or directly screw the hose (43) into the spark plug aperture.
- 5.6.6. **DO NOT** connect the Leakage Tester to the hose's connector until the leakage gauge has been calibrated. To do this, screw a 1/4" BSPT male air line connector fitting into the threaded hole on the side of the regulator of the Leakage Tester. Pull out and turn the regulator knob on the tester fully in to close the regulator, then fit the blanking connector (55) to the end of the leakage hose (54), before connecting the regulator/tester to the compressed air line (supply must be between 45 and 100psi).
- 5.6.7. Calibrate the leakage gauge by turning the regulator knob out until the needle on the gauge reaches zero at the end of the yellow 'SET' band (0%), typically this will happen between 15 to 20psi, then lock the regulator by pushing the knob in. Once set, remove the air line from the regulator and then remove the blanking connector (55) and instead, connect the leakage hose (54) to the previously fitted connector/hose (see 5.6.4). Reconnect the air line.
- 5.6.8. Any leakage present in the currently connected cylinder will show on the cylinder leakage gauge as a percentage loss. A cylinder that is not leaking will read approximately 20% in the green band.
- 5.6.9. Test the other cylinders (always at TDC), and compare the leakage figures to determine which of the cylinders are faulty.
- 5.6.10. If necessary, retest the cylinder(s) showing high leakage. Check at the listening points (see 5.5.) to determine the cause of the leakage.

5.7. PROBLEM SOLVING.

- 5.7.1. If excessive leakage shows on gauge, the cylinder may not be at TDC on the compression stroke. Check to ensure that the valves are closed. Always position piston at TDC for uniform results.
- 5.7.2. If rings are broken or cylinder walls are scored, excessive leakage will be identified.
- 5.7.3. It is important that all cylinders have reasonably uniform readings (as in compression testing). Differences in excess of 15% indicate excessive leakage.
- 5.7.4. Large engines tend to leak more than small engines.
- 5.7.5. If leak is excessive on a vehicle with low mileage, the piston rings may be stuck. Treat the engine with quality tune-up oil for a period of time and then re-test before disassembling.
- 5.7.6. The lower the pitch of the leakage sound, the greater the leak.
- 5.7.7. To assist with listening, use a length of clean hose, or a mechanic's stethoscope with the probe removed.

- 5.7.8. When making repeat tests on the same cylinder, variations in the piston position and engine temperature can cause gauge readings to differ by up to 10%.
- 5.7.9. If an engine has multiple faults (such as worn rings and burned valves), the tester may indicate only the most serious fault.
- NOTE:** There is always some leakage past the piston rings. As a result, some leakage will always be heard when listening to the dipstick tube.



ENVIRONMENT PROTECTION

Recycle unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of in a manner which is compatible with the environment. When the product becomes completely unserviceable and requires disposal, drain any fluids (if applicable) into approved containers and dispose of the product and fluids according to local regulations.

Note: It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice.

Important: No Liability is accepted for incorrect use of this product.

Warranty: Guarantee is 12 months from purchase date, proof of which is required for any claim.

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VSE3156.V3

DIESEL VEHICLE APPLICATION LIST

| Make / Model | Engine | Type | Information | Year | Adaptor No |
|--------------|--------|------|-------------|------|------------|
|--------------|--------|------|-------------|------|------------|

| Alfa Romeo | | | | | |
|------------|-----|-----|---------------------------|----------------|----|
| 145 | 1.9 | TD | AR67501 (AR67502NO) | 04/94 -> 09/96 | 2 |
| 145 | 1.9 | TD | AR33601 | 10/96 -> 09/97 | 2 |
| 145 | 1.9 | JTD | AR32302 | 01/98 -> 01/01 | 14 |
| 146 | 1.9 | TD | AR67501 (AR67502NO) | 02/95 -> 09/96 | 2 |
| 146 | 1.9 | TD | AR33601 | 10/96 -> 09/97 | 2 |
| 146 | 1.9 | JTD | AR32302 | 01/98 -> 01/01 | 14 |
| 147 | 1.9 | JTD | 937A2.000 | 03/01 -> | 14 |
| 147 | 1.9 | JTD | 182B9.000 | 06/03 -> | 14 |
| 147 | 1.9 | JTD | AR37101 | 07/05 -> | 14 |
| 155 | 1.9 | TD | AR67502 | 04/93 -> 04/96 | 2 |
| 155 | 2.5 | TD | VM07, VM31B, VM425CLIEA | 05/95 -> 01/98 | 12 |
| 156 | 1.9 | JTD | AR32302 | 01/98 -> | 14 |
| 156 | 1.9 | JTD | AR37101 | 10/00 -> 05/01 | 14 |
| 156 | 1.9 | JTD | 937A2.000 | 05/01 -> | 14 |
| 156 | 2.4 | JTD | AR32501 | 01/98 -> 09/00 | 14 |
| 156 | 2.4 | JTD | AR32501 | 02/98 -> 11/99 | 14 |
| 156 | 2.4 | JTD | 839A6.000 | 10/00 -> | 14 |
| 156 | 2.4 | JTD | 841C.000 | 03/02 -> | 14 |
| 156 | 2.4 | JTD | 841G.000 | 11/03 -> | 14 |
| 159 | 1.9 | JTD | 939A1.000 | 09/05 -> | 14 |
| 164 | 2.5 | TD | VM08B, VM32B, VM425-SLIRA | 05/95 -> 09/98 | 12 |
| 166 | 2.4 | JTD | AR34202 | 10/98 -> 09/00 | 14 |
| 166 | 2.4 | JTD | AR36202 | 10/00 -> | 14 |
| 166 | 2.4 | JTD | 841C.000 | 04/02 -> | 14 |
| Brera | 1.9 | JTD | 939A1.000 | 06/06 -> | 14 |

| Audi | | | | | |
|------|-----|-----|--------------------|----------------|----|
| A2 | 1.2 | TDi | ANY | 02/00 -> | 12 |
| A2 | 1.4 | TDi | AMF | 02/00 -> 08/03 | 12 |
| A3 | 1.9 | TDi | AGR, AHF, AJM, ALH | 09/96 -> 05/03 | 12 |
| A3 | 1.9 | TDi | ASV | 01/97 -> 07/98 | 12 |
| A3 | 1.9 | TDi | ANU | 08/98 -> | 12 |
| A3 | 1.9 | TDi | ASZ | 10/00 -> 05/03 | 12 |
| A3 | 1.9 | TDi | ATD | 10/00 -> | 12 |
| A3 | 1.9 | TDi | AXR | 10/00 -> 09/01 | 12 |
| A3 | 1.9 | TDi | AZV, BKD | 03/03 -> | 12 |
| A4 | 1.9 | D | AFF, AHH | 03/96 -> 07/97 | 12 |
| A4 | 1.9 | TDi | 1Z | 01/95 -> 07/96 | 12 |
| A4 | 1.9 | TDi | AFN | 02/96 -> 06/00 | 12 |
| A4 | 1.9 | TDi | AFF | 03/96 -> 06/00 | 12 |
| A4 | 1.9 | TDi | AHU | 08/96 -> 06/00 | 12 |
| A4 | 1.9 | TDi | AJM | 01/98 -> 12/98 | 12 |
| A4 | 1.9 | TDi | AVG | 08/99 -> 06/00 | 12 |
| A4 | 1.9 | TDi | ATJ | 03/00 -> 09/01 | 12 |
| A4 | 1.9 | TDi | ATD | 09/01 -> | 12 |
| A4 | 1.9 | TDi | AVB | 09/01 -> 04/04 | 12 |
| A4 | 1.9 | TDi | AVF, AWX | 01/01 -> | 12 |
| A4 | 2.5 | TDi | AFB, AKN | 09/97 -> 09/01 | 16 |
| A4 | 2.5 | TDi | AKE, AVL | 11/00 -> | 16 |
| A4 | 2.5 | TDi | AYM | 08/01 -> 07/02 | 16 |
| A4 | 2.5 | TDi | BFC, BDG, BCZ | 07/02 -> | 16 |

| Audi (Continued) | | | | | |
|------------------|-----|-----|---------------|----------------|----|
| A6 | 1.9 | TDi | 1Z, AHU | 07/94 -> 10/97 | 12 |
| A6 | 1.9 | TDi | AFN | 04/97 -> 04/01 | 12 |
| A6 | 1.9 | TDi | AJM | 01/98 -> 04/01 | 12 |
| A6 | 1.9 | TDi | AVF, AWX | 07/01 -> | 12 |
| A6 | 2.5 | TDi | AAT, AEL | 06/94 -> 10/97 | 12 |
| A6 | 2.5 | TDi | AFB | 04/97 -> 07/98 | 16 |
| A6 | 2.5 | TDi | AKN | 07/98 -> 05/01 | 16 |
| A6 | 2.5 | TDi | AKE | 02/00 -> | 16 |
| A6 | 2.5 | TDi | AYM | 08/01 -> 06/02 | 16 |
| A6 | 2.5 | TDi | BFC, BDG, BCZ | 07/02 -> | 16 |
| A6 | 2.5 | TDi | BAU, BDH | 02/00 -> 01/05 | 16 |
| A8 | 2.5 | TDi | AFB | 06/97 -> 09/98 | 16 |
| A8 | 2.5 | TDi | AKN | 07/98 -> 09/98 | 16 |
| A8 | 3.0 | TDi | ASB | 08/03 -> | 16 |
| A8 | 4.0 | TDi | ASE | 03/03 -> | 16 |
| A8 | 3.3 | TDi | AKF | 09/99 -> 09/02 | 16 |
| Allroad | 2.5 | TDi | AKE | 05/01 -> | 16 |
| Cabrio | 1.9 | TDi | 1Z | 07/95 -> 06/96 | 12 |
| Cabrio | 1.9 | TDi | AHU | 07/96 -> 11/00 | 12 |

| BMW | | | | | |
|----------|-------------------|-----|-----------------|----------------|----|
| 3-Series | 318 (E36) | TDS | M41 | 09/94 -> 01/98 | 2 |
| 3-Series | 318 Compact (E36) | TDS | M41 D18U | 03/94 -> 07/01 | 2 |
| 3-Series | 320 (E46) | D | M47 D20 | 04/98 -> 09/01 | 12 |
| 3-Series | 320 Compact (E46) | TD | M47 N204 D4 | 09/01 -> | 12 |
| 3-Series | 325 (E36) | TD | M51 | 09/91 -> 01/98 | 2 |
| 3-Series | 325 (E36) | TDS | M51 | 08/93 -> 03/98 | 2 |
| 3-Series | 330 (E46) | Di | DDE306, M57 D30 | 08/99 -> 02/05 | 12 |
| 3-Series | 330 (E46) | D | M57306D1 | 08/00 -> 02/05 | 12 |
| 3-Series | 330 (E46) | Di | M57 D30 | 06/00 -> 02/05 | 12 |
| 5-Series | 520 (E39) | Di | M47 D20 | 06/02 -> | 12 |
| 5-Series | 520 (E39) | D | M47 D20 | 02/00 -> 05/02 | 12 |
| 5-Series | 524 (E34) | TD | M21 | 03/88 -> 09/91 | 2 |
| 5-Series | 525 (E39) | D | M57 D25 | 02/00 -> 06/03 | 12 |
| 5-Series | 525 (E34) | TD | M51 D25 | 09/91 -> 12/96 | 2 |
| 5-Series | 525 (E34) | TDS | M51 D25 | 08/93 -> 01/96 | 2 |
| 5-Series | 525 (E39) | TDS | M51 D25 | 01/96 -> 06/03 | 2 |
| 5-Series | 525 (E39) | TDS | M51 D25 | 01/97 -> 06/98 | 2 |
| 5-Series | 525 (E39) | TDS | M57 D25 | 02/00 -> 05/04 | 12 |
| 5-Series | 530 (E39) | D | M57 D30 | 05/98 -> 09/00 | 12 |
| 7-Series | 725 (E38) | TDS | M51 D25 | 02/96 -> 09/98 | 2 |
| 7-Series | 730 (E38) | D | M52 D30H | 05/98 -> | 12 |
| 7-Series | 740 (E38) | TD | M67 D40 | 01/99 -> | 15 |
| X5 | 2.9 (E53) | Di | M57 D30 | 05/01 -> 06/03 | 12 |

| Chrysler | | | | | |
|---------------------|-----|-----|-------------------------|----------------|----|
| Grand Voyager | 2.5 | TD | VM HR425 CLIEE | 05/95 -> 04/01 | 12 |
| Jeep Cherokee | 2.5 | TD | VM HR425 CLIRX | 10/94 -> | 2 |
| Jeep Grand Cherokee | 2.5 | TD | VM HR492/VM 425CLIRE | 01/93 -> | 2 |
| Jeep Grand Cherokee | 2.5 | TD | ENC | 04/99 -> | 12 |
| Jeep Grand Cherokee | 3.1 | TD | EXA | 04/99 -> | 12 |
| PT Cruiser | 2.2 | CRD | EDJ | 03/02 -> | 15 |
| Voyager | 2.2 | TD | VM HR 492 /VM 425 CLIRE | 06/92 -> 01/96 | 2 |
| Voyager | 2.5 | TD | VM HR 425 CLIEE | 04/92 -> 04/95 | 2 |
| Voyager | 2.5 | TD | VM | 05/95 -> 04/01 | 12 |

| Citroen | | | | | |
|---------------------|-----|---------|----------------------|----------------|----|
| AX | 1.5 | D | TUD5 | 10/94 -> 04/97 | 12 |
| Berlingo | 1.8 | D | XUD7 | 08/96 -> 08/98 | 2 |
| Berlingo | 1.8 | TD | DW8TD | 09/98 -> | 12 |
| Berlingo | 1.9 | D | XUD9A | 07/96 -> 08/98 | 2 |
| Berlingo | 1.9 | D | DW8B | 07/98 -> | 12 |
| Berlingo | 1.9 | Di | XUD9A | 09/98 -> | 2 |
| Berlingo | 2.0 | HDi | DW10 | 10/99 -> | 17 |
| C1 | 1.4 | HDi | DV4D | 06/05 -> | 20 |
| C2 | 1.4 | HDi | DV4TD (8HX) | 2003 -> | 20 |
| C3 | 1.4 | HDi | DV4 | 02/02 -> | 20 |
| C3 | 1.4 | HDi | DV4TED4 | 02/02 -> | 20 |
| C4 | 1.6 | HDi | DV6ATED4 (9HX) | 11/04 -> | 20 |
| C4 | 1.6 | HDi | DV6TED4 (9HY/9HZ) | 11/04 -> | 20 |
| C4 (Grande) Picasso | 1.6 | HDi | DV6ATED4 (9HY) | 10/06 -> | 20 |
| C5 | 1.6 | HDi | DV6TED4 | 09/04 -> | 20 |
| C5 | 2.0 | HDi | DW10TD, DW10TED | 01/01 -> | 17 |
| C5 | 2.2 | HDi | DW12TED4 | 01/01 -> | 17 |
| C8 | 2.0 | HDi | DW10TD, DW10TED | 07/02 -> | 17 |
| C8 | 2.2 | HDi | DW12TED4 | 2002-> | 17 |
| C15 | 1.8 | D | XUD7 | 06/95 -> | 2 |
| C15 | 1.9 | D | DW8B | 07/98 -> | 12 |
| C25 | 1.9 | D | XU9DA | 07/87 -> 01/94 | 2 |
| C25 | 2.5 | TD | CRD 93 LS | 04/87 -> 01/94 | 2 |
| C35 | 2.5 | D | CRD 93 B | 01/80 -> 01/94 | 2 |
| CX | 2.5 | TD | M25-669.671 | 01/87 -> 12/92 | 2 |
| Dispatch | 1.9 | D | XUD9AU | 03/94 -> 08/98 | 2 |
| Dispatch | 1.9 | D | XUD9AU | 09/98 -> | 12 |
| Dispatch | 1.9 | TD | XUD9TF | 03/94 -> 08/98 | 2 |
| Dispatch | 1.9 | TD | XUD9TF | 09/98 -> | 12 |
| Dispatch | 2.0 | HDi | DW10 | 09/98 -> | 17 |
| Dispatch | 2.4 | D | DJ5 | 03/94 -> | 2 |
| Dispatch | 2.4 | TD | DJ5T | 03/94 -> 08/96 | 2 |
| Dispatch | 2.5 | TDi | DJ5TED | 09/96 -> | 15 |
| Evasion | 1.9 | TD | XUD9TF, XUD9BTF | 07/94 -> 10/02 | 2 |
| Evasion | 2.0 | HDi | DW10ATED | 07/99 -> 10/02 | 17 |
| Evasion | 2.0 | TD | DHX | 05/97 -> 10/02 | 2 |
| Evasion | 2.1 | TD | XUD11BTE | 05/96 -> 10/02 | 2 |
| Jumper | 1.9 | D | XUD9AU | 03/94 -> 05/95 | 2 |
| Jumper | 1.9 | D | XUD9, XUD9AU | 06/95 -> | 2 |
| Jumper | 1.9 | TD | XUD9TF | 03/94 -> | 2 |
| Jumper | 2.0 | HDi | DW10, DW10TD | 09/98 -> | 17 |
| Jumper | 2.2 | HDi | DW12TED | 04/02 -> | 17 |
| Jumper | 2.2 | HDi 100 | 4HV | 04/06 -> | 18 |
| Jumper | 2.2 | HDi 120 | 4HU | 04/06 -> | 18 |
| Jumper | 2.5 | D | DJ5 | 03/94 -> | 2 |
| Jumper | 2.5 | D | DJ5TE | 03/94 -> 08/96 | 2 |
| Jumper | 2.5 | D | DJ5 | 03/94 -> | 2 |
| Jumper | 2.5 | TD | DJ5TE | 03/94 -> 12/96 | 2 |
| Jumper | 2.5 | TDi | DJ5TED | 09/96 -> | 15 |
| Jumpy | 1.9 | D | XUD9A | 09/95 -> | 2 |
| Jumpy | 1.9 | D | DW8 | 07/98 -> | 12 |
| Jumpy | 1.9 | TD | XUD9TF | 09/95 -> | 2 |
| Jumpy | 2.0 | HDi | RHX | 10/99 -> | 17 |
| Jumpy | 2.0 | HDi | DW10ATED, BTED, TED4 | 2000 -> | 17 |
| Nemo | 1.4 | HDi | DV4TED | 02/08 -> | 20 |
| Relay | 1.8 | D | DW8 | 09/98 -> | 12 |
| Relay | 1.8 | TD | DW8TD | 09/98 -> | 12 |
| Relay | 1.9 | D | XUD9A | 09/95 -> | 2 |
| Relay | 1.9 | TD | XUD9TF | 09/95 -> | 2 |

| Citroen (Continued) | | | | | |
|---------------------|-----|-----|------------------|----------------|----|
| Relay | 2.0 | HDi | DW10 | 2000 -> | 17 |
| Saxo | 1.5 | D | TUD5,5B | 02/96 -> 10/03 | 12 |
| Synergie | 1.9 | TD | XUD9TF, XUD9BTF | 01/94 -> 08/98 | 2 |
| Synergie | 1.9 | TD | DW8 | 09/98 -> | 12 |
| Synergie | 1.9 | TD | XUD9TF, XUD9BTF | 09/98 -> | 2 |
| Synergie | 2.0 | HDi | DW10ATED | 07/99 -> | 17 |
| Synergie | 2.1 | TD | XUD11BTE | 05/96 -> 2002 | 2 |
| Visa | 1.8 | D | XUD7 | 01/87 -> 03/91 | 2 |
| Xantia | 1.9 | D | XUD9 AL | 03/93 -> 01/96 | 2 |
| Xantia | 1.9 | D | XUD9SD | 06/94 -> | 2 |
| Xantia | 1.9 | D | XUD9A | 02/96 -> 08/98 | 2 |
| Xantia | 1.9 | TD | XUD9BTF | 03/93 -> | 2 |
| Xantia | 2.0 | HDi | DW10TD, DW10ATED | 07/98 -> | 17 |
| Xantia | 2.1 | TD | XUD11BTE | 05/95 -> | 2 |
| XM | 2.1 | D | XUD 11A,L | 05/89 -> 06/95 | 2 |
| XM | 2.1 | TD | XUD 11ATE,L,BTE | 05/89 -> 05/01 | 2 |
| XM | 2.1 | TD | XUD11ATE,BTE | 07/94 -> 12/00 | 2 |
| XM | 2.5 | TD | DK5ATE | 07/94 -> 05/01 | 2 |
| Xsara | 1.4 | HDi | DV4 | 2003 -> | 20 |
| Xsara | 1.5 | D | TUD5 | 09/97 -> | 12 |
| Xsara | 1.8 | D | XUD7 | 09/97 -> | 2 |
| Xsara | 1.8 | TD | | 09/97 -> | 2 |
| Xsara | 1.9 | D | XUD9A | 09/97 -> | 2 |
| Xsara | 1.9 | D | DW8,8B | 04/98 -> | 12 |
| Xsara | 1.9 | D | XUD9BSD | 09/98 -> | 2 |
| Xsara | 1.9 | TD | XUD9TE, XUD9TE/Y | 09/97 -> 08/98 | 2 |
| Xsara | 1.9 | TD | XUD9TE, XUD9BSD | 09/98 -> | 2 |
| Xsara | 2.0 | HDi | DW10TD | 04/99 -> | 17 |
| Xsara | 2.0 | HDi | RHZ DW10ATED | 05/01 -> | 17 |
| Xsara Picasso | 1.6 | HDi | DV6TED4 | 05/04 -> | 20 |
| Xsara Picasso | 2.0 | HDi | DW10TD, DW10ATED | 12/99 -> | 17 |
| ZX | 1.5 | D | TUD5 | 10/94 -> 06/98 | 12 |
| ZX | 1.8 | D | XUD7 | 05/94 -> 06/98 | 2 |
| ZX | 1.9 | D | XUD 9A,L | 03/91 -> 06/98 | 2 |
| ZX | 1.9 | TD | XUD9T,L | 09/92 -> 06/98 | 2 |

| Daewoo | | | | | |
|---------|-----|-----|--------------|----------------|----|
| Daewoo | 1.9 | D | F8Q-290 | 02/99 -> 01/05 | 13 |
| Daewoo | 1.9 | D | F8Q-292 | 06/99 -> 01/05 | 13 |
| Korando | 2.9 | D | MB-OM662 | 01/99 -> 01/05 | 3 |
| Korando | 2.9 | TD | MB-OM601 | 01/99 -> 01/05 | 3 |
| Musso | 2.2 | TD | MB OM 601 | 09/99 -> | 3 |
| Musso | 2.3 | TDi | OM661LA | 01/99 -> 01/05 | 3 |
| Musso | 2.9 | D | OM622LA | 01/99 -> 01/05 | 3 |
| Musso | 2.9 | TD | MB-OM60129TD | 01/99 -> 09/99 | 3 |
| Rexton | 2.9 | TD | | 04/02 -> | 3 |

| Daihatsu | | | | | |
|-------------|-----|---|-----|----------------|---|
| Delta | 3.4 | D | 3B | 05/95 -> | 4 |
| Delta Wide | 2.0 | D | 2C | 08/95 -> 11/96 | 4 |
| Hijet (S85) | 1.2 | D | LDW | 05/95 -> 02/98 | 2 |

| FIAT | | | | | |
|-------|-----|-----|-----------|----------------|----|
| Brava | 1.9 | D | 160A7.000 | 09/95 -> 03/96 | 2 |
| Brava | 1.9 | JTD | 182B4000 | 10/98 -> 2002 | 14 |
| Brava | 1.9 | JTD | 182B9000 | 09/00 -> 2002 | 14 |
| Bravo | 1.9 | D | 160A7.000 | 09/95 -> 03/96 | 2 |
| Bravo | 1.9 | JTD | 182B4000 | 10/98 -> 2002 | 14 |

| FIAT (Continued) | | | | | |
|------------------|-----|-----|------------------------|----------------|----|
| Bravo | 1.9 | JTD | 182B9000 | 09/00 -> 2002 | 14 |
| Croma | 1.9 | D | 939A1.000 | 06/05 -> | 14 |
| Croma | 2.5 | D | 8144.67 | 1990-> 1997 | 2 |
| Croma | 2.5 | TD | 8144.91.200,8144.97 | 01/93 -> 12/93 | 2 |
| Doblo | 1.9 | JTD | 182B9.000 | 01/01 -> | 14 |
| Doblo | 1.3 | JTD | 188A9.000 | 02/04 -> | 48 |
| Ducato | 1.9 | D | 230.A2.000 | 03/94 -> 04/02 | 2 |
| Ducato | 1.9 | D | DJY | 04/98 -> | 12 |
| Ducato | 1.9 | TD | 280A1.000 | 01/90 -> 02/94 | 2 |
| Ducato | 1.9 | TD | 230A4.000 | 03/94 -> 04/02 | 2 |
| Ducato | 1.9 | TD | 230A3.001 | 03/94 -> 04/02 | 2 |
| Ducato | 1.9 | TD | 230A3.000 | 03/94 -> | 2 |
| Ducato | 1.9 | TD | DHX | 04/98 -> | 2 |
| Ducato | 2.0 | JTD | RHV (DW10) | 10/01 -> | 17 |
| Ducato | 2.5 | TD | | 03/94 -> | 2 |
| Elba | 1.7 | D | | 04/89 -> 12/96 | 2 |
| Fiorino | 1.7 | D | | 1992 -> | 2 |
| Fiorino | 1.7 | TD | 146D7.000 | 1997 -> | 2 |
| Grande Punto | 1.9 | D | | 10/05 -> | 14 |
| Idea | 1.9 | JTD | 188B2.000 | 01/04 -> | 14 |
| Idea | 1.3 | JTD | 188 A9.000 | 02/04 -> | 48 |
| Linea | 1.3 | D | | 06/07 -> | 48 |
| Marea | 1.9 | JTD | 182B4.000 | 10/98 -> 08/00 | 14 |
| Marea | 1.9 | JTD | 186A6.000 | 09/00 -> | 14 |
| Marea | 2.4 | JTD | 185A6.000 | 10/98 -> 04/99 | 14 |
| Marea | 2.4 | JTD | 839A5.000 | 04/99 -> | 14 |
| Marea | 2.4 | JTD | 185A6.000 | 04/99 -> | 14 |
| Marengo | 1.9 | D | 160A7.000 | 01/92 -> | 2 |
| Marengo | 1.9 | TD | 160.A6.000 | 01/92 -> 12/96 | 2 |
| Multipla | 1.9 | JTD | 182B4.000 | 03/99 -> | 14 |
| Multipla | 1.9 | JTD | 186A6.000 | 09/00 -> 07/02 | 14 |
| Multipla | 1.9 | JTD | 186A8.000 | 07/02 -> | 14 |
| Palio | 1.7 | D | 176A3.000 | 04/96 -> | 2 |
| Palio | 1.7 | TD | 176A3.000 | 04/96 -> | 2 |
| Palio | 1.9 | JTD | 188A2.000 | 01/01 -> | 14 |
| Palio Weekend | 1.7 | TD | 176A3.000 | 07/97 -> | 2 |
| Panda | 1.3 | JTD | 188 A9.000 | 01/04 -> | 48 |
| Punto | 1.7 | D | 176A3.000 | 06/93 -> 1999 | 2 |
| Punto | 1.7 | D | 176A3000, 176B3000 | 04/94 -> 11/96 | 2 |
| Punto | 1.7 | TD | 176TD 1697 TT | 06/93 -> 09/96 | 2 |
| Punto | 1.7 | TD | 176B7.000 | 09/96 -> 09/99 | 2 |
| Punto | 1.7 | TD | 176A5.000 | 10/96 -> 09/99 | 2 |
| Punto | 1.7 | JTD | 188A7.000 | 02/00 -> | 14 |
| Punto | 1.7 | TDS | 176A5000 | 04/96 -> 02/00 | 2 |
| Punto | 1.9 | JTD | 188A2.000 | 08/99 -> | 14 |
| Punto | 1.9 | JTD | 188A7.000 | 07/01 -> | 14 |
| Punto | 1.3 | JTD | 189A9.000 | 06/03 -> | 48 |
| Punto Grande | 1.3 | TD | 188A9.000 | 01/06 -> | 48 |
| Scudo | 1.8 | D | DW8,B | 09/98 -> | 12 |
| Scudo | 1.8 | TD | DW8TD | 09/98 -> | 12 |
| Scudo | 1.9 | D | D9B | 1995-> 07/98 | 2 |
| Scudo | 1.9 | TD | D8B | 1995-> 07/98 | 2 |
| Scudo | 2.0 | JTD | DW10ATED4, DWBTED, RHW | 2000-> | 17 |
| Sedici | 1.9 | JTD | | 06/06 -> | 14 |
| Stilo | 1.9 | D | | 09/05 -> | 14 |
| Stilo | 1.9 | JTD | 192A3.000 | 10/01 -> | 14 |
| Stilo | 1.9 | JTD | | 10/01 -> | 14 |
| Stilo | 1.9 | JTD | 192A1.000 | 10/01 -> 12/02 | 14 |
| Stilo | 2.4 | JTD | 839A6.000 | 10/01 -> | 14 |

| FIAT (Continued) | | | | | |
|------------------|-----|-----|---------------|----------------|----|
| Strada | 1.9 | JTD | 188A2.000 | 04/03 -> | 14 |
| Strada | 1.3 | D | 223A9.000 | 05/06 -> | 48 |
| Tempra | 1.9 | D | 160 A.000 | 02/91 -> 09/96 | 2 |
| Tempra | 1.9 | D | 160A6.000 | 02/91 -> 09/96 | 2 |
| Tempra | 1.9 | TD | 160B6.046 | 07/91 -> 12/96 | 2 |
| Tempra | 1.9 | TD | 160D.1000 | 04/93 -> 09/96 | 2 |
| Tipo | 1.9 | TD | 160D.1000 | 04/93 -> 09/95 | 2 |
| Tipo | 1.9 | TD | 160A7.000 | 06/93 -> 10/95 | 2 |
| Ulysse | 1.9 | JTD | XUD9TU | 09/94 -> 03/99 | 2 |
| Ulysse | 2.0 | TD | XUD11 ATE | 05/96 -> | 2 |
| Ulysse | 2.0 | TD | RHZ | 10/99 -> | 17 |
| Ulysse | 2.0 | JTD | DW10ATED, RHW | 12/99 -> | 17 |
| Ulysse | 2.1 | TD | P8C | 08/96 -> 10/99 | 2 |
| Ulysse | 2.2 | JTD | DW12ATED,4HW | 04/03 -> | 17 |
| 500 | 1.3 | D | 169A1.000 | 10/07 -> | 48 |

| Ford | | | | | |
|-------------|-----|-------|----------------------|----------------|----|
| Courier | 1.8 | D | RTJ,RTK | 02/96 -> 07/98 | 2 |
| Courier | 1.8 | Di | RTP | 01/00 -> 12/01 | 2 |
| Escort | 1.8 | TD | RVA | 08/90 -> 07/98 | 2 |
| Escort | 1.8 | TD | RFS | 01/95 -> 02/99 | 2 |
| Escort Van | 1.8 | TD | RVA | 12/95-06/01 | 2 |
| Fiesta | 1.4 | TDCi | DV4 | 2001 -> | 20 |
| Fiesta | 1.6 | TDCi | HHJA / HHJB | 11/04 -> | 20 |
| Fiesta | 1.8 | D | D18NA,RTK,RTJ | 11/95 -> 04/00 | 2 |
| Fiesta | 1.8 | Di | RTQ Endura | 01/00 -> 12/01 | 2 |
| Fiesta | 1.8 | Di | RTN, RTP, RTQ Endura | 04/00 -> | 2 |
| Fiesta | 1.8 | TD | | 11/95 -> | 2 |
| Fiesta Van | 1.8 | D | RTK | 02/96 -> | 2 |
| Fiesta Van | 1.8 | D | RTJ,RTK | 05/98 -> | 2 |
| Focus | 1.6 | TDCi | HHDA, HHDB | 01/05 -> | 20 |
| Focus | 1.6 | TDCi | G8BA / G8DA | 11/04 -> | 20 |
| Focus C-Max | 1.6 | TDCi | | 02/05 -> | 20 |
| Focus C-Max | 1.6 | TDCi | G8BA / G8DA | 10/03 -> | 20 |
| Fusion | 1.4 | TDCi | | 2001-> | 20 |
| Fusion | 1.4 | TDCi | | 06/03 -> | 20 |
| Fusion | 1.6 | TDCi | HHJA / HHJB | 11/04 -> | 20 |
| Galaxy | 1.9 | TD | 1Z,AHU,ANU | 10/95 -> 10/01 | 12 |
| Galaxy | 1.9 | TDi | AFN | 02/95 -> 04/00 | 12 |
| Galaxy | 1.9 | TDi | AVG | 06/99 -> | 12 |
| Galaxy | 1.9 | TDi | AUY | 04/00 -> 09/01 | 12 |
| Galaxy | 1.9 | TDi | AHU, 1Z, ANU | 10/01 -> | 12 |
| Galaxy | 1.9 | TDi | AUY | 10/01 -> | 12 |
| Maverick | 2.7 | TD | TD27T | 02/93 -> 07/96 | 8 |
| Maverick | 2.7 | TD | TD27E | 08/96 -> 05/01 | 8 |
| Mondeo | 1.8 | TDi | D18TDi | 09/96 -> 09/00 | 2 |
| Mondeo | 1.8 | TD Di | R5BA | 10/00 -> | 18 |
| Mondeo | 2.0 | TDi | D5BA,D6BA | 10/00 -> | 18 |
| Mondeo | 2.0 | TDCi | | 2002-> | 18 |
| Mondeo | 2.2 | TDCi | QJBA, QJBB | 09/04 -> | 18 |
| Ranger | 2.5 | D | WL (MD25NA) | 10/99 -> 04/02 | 8 |
| Ranger | 2.5 | TD | WL-T (MD25Ti) | 10/99 -> | 8 |
| Scorpio | 2.5 | TD | SCB,SCC (E2D36) | 11/94 -> 06/96 | 12 |
| Scorpio | 2.5 | TD | SCD | 09/96 -> 08/98 | 12 |
| Tourneo | 2.0 | Di | | 06/01 -> | 18 |
| Transit | 2.0 | Di | | 08/00 -> | 18 |
| Transit | 2.0 | TDi | D3FA,ABFA | 03/99 -> | 18 |
| Transit | 2.2 | TDCi | P8FA | 06/07 -> | 18 |

| FORD (Cont'd) | | | | | |
|---------------|-----|------|-----------|----------|----|
| Transit | 2.2 | TDCi | QVFA | 06/07 -> | 18 |
| Transit | 2.2 | TDCi | QWFA | 06/07 -> | 18 |
| Transit | 2.4 | Di | D2FE,D2FA | 01/00 -> | 18 |
| Transit | 2.4 | Di | D4FA | 01/00 -> | 18 |
| Transit | 2.4 | TDi | F4FA | 01/00 -> | 18 |
| Transit | 2.4 | TDCi | PHFA | 06/07 -> | 18 |
| Transit | 2.4 | TDCi | JXFA | 06/07 -> | 18 |
| Transit | 2.4 | TDCi | H9FB | 06/07 -> | 18 |

| FSO | | | | | |
|---------|-----|---|-------|---------|---|
| Polonez | 1.9 | D | XUD9A | 1991 -> | 2 |

| Honda | | | | | |
|----------------|-----|------|----------------|----------------|----|
| Accord | 2.0 | TDi | L Series 20TN2 | 05/95 -> 10/98 | 12 |
| Accord | 2.0 | TDi | | 02/99 -> | 12 |
| Civic | 1.7 | CTDi | 4EE-2 | 2002-> | 11 |
| Civic | 2.0 | D | L Series | 03/96 -> 2001 | 12 |
| Civic | 2.0 | TDi | 20TN2-20T2R | 10/97 -> | 12 |
| Civic Aerodeck | 2.0 | TDi | 20T2N | 05/98 -> 2001 | 12 |
| Civic Fastback | 2.0 | TDi | 20T2N | 10/97 -> 02/01 | 12 |
| Concerto | 1.8 | TD | XUD7T | 08/94 -> 10/96 | 2 |

| Hyundai | | | | | |
|----------|-----|----|------|----------------|---|
| Galloper | 2.5 | TD | | 08/91 -> 07/98 | 8 |
| Galloper | 2.5 | TD | D4BH | 08/98 -> | 8 |
| H-1 | 2.5 | TD | D4BH | 03/00 -> | 8 |
| Starex | 2.5 | TD | | 06/97 -> | 8 |

| Isuzu | | | | | |
|-------|-----|----|----------|-------------|---|
| Rodeo | 2.2 | TD | C223 (T) | 1981->08/07 | 9 |

| Jeep | | | | | |
|----------------|-----|-----|----------|----------------|----|
| Cherokee | 2.5 | TD | VM | 10/94 -> | 2 |
| Cherokee | 3.1 | TD | | 09/01 -> | 12 |
| Commander | 3.0 | CRD | Mercedes | 2006 -> | 15 |
| Grand Cherokee | 2.5 | TD | VM | 01/93 -> 02/99 | 12 |
| Grand Cherokee | 2.5 | TD | | 03/99 -> | 12 |
| Grand Cherokee | 2.7 | CRD | | 11/01 -> | 12 |
| Grand Cherokee | 3.1 | TD | | 03/99 -> | 12 |

| Kia | | | | | |
|----------|-----|------|----------------|----------------|----|
| Besta | 2.2 | D | R2 | 02/96-> | 8 |
| Magentis | 2.0 | CRDi | D4 EA | 04/06 -> | 15 |
| Pregio | 2.7 | D | J2 | 10/97 -> | 8 |
| Pregio | 3.0 | D | JT-MotorW3,NB9 | 01/98 -> | 8 |
| Prontier | 3.0 | D | JT-MotorW3,NB9 | 01/98 -> | 8 |
| Retona | 2.0 | TD | | 06/99-> | 8 |
| Sportage | 2.0 | TD | RF | 10/97 -> 09/98 | 8 |
| Sportage | 2.0 | TD | 4WD | 1997 -> | 8 |

| Lada | | | | | |
|---------|-----|---|----------------|----------|----|
| Cossack | 1.9 | D | Peugeot XUD 9L | 01/94 -> | 2 |
| Hussar | 1.9 | D | Peugeot XUD 9L | 01/94 -> | 2 |
| Niva | 1.9 | D | Peugeot XUD 9L | 01/94 -> | 2 |
| Sagona | 1.5 | D | TUD5L | 11/96 -> | 12 |
| Samara | 1.5 | D | TUD5L | 11/96 -> | 12 |

| Lancia | | | | | |
|---------|-----|-----|----------------|----------------|----|
| Kappa | 2.4 | JTD | 838A8.000 | 05/98 -> 10/01 | 14 |
| Lybra | 1.9 | JTD | AR32302 | 07/99 -> | 14 |
| Lybra | 1.9 | JTD | AR3701 | 09/00 -> 05/01 | 14 |
| Lybra | 1.9 | JTD | AR32302 | 05/01 -> | 14 |
| Lybra | 2.0 | JTD | 839A5000 | 09/00 -> | 14 |
| Lybra | 2.2 | JTD | 839A5000 | 05/02 -> | 14 |
| Lybra | 2.4 | JTD | 839A5000 | 07/99 -> | 14 |
| Musa | 1.9 | | 188B2.000 | 10/04 -> | 14 |
| Musa | 1.3 | | 189 A9.000 | 10/04 -> | 48 |
| Phedra | 2.0 | JTD | RHM | 07/03 -> | 17 |
| Phedra | 2.0 | JTD | DW10TD,DW10TED | 09/02 -> | 17 |
| Phedra | 2.2 | JTD | DW12TED4 | 09/02 -> | 17 |
| Thesis | 1.9 | JTD | | 10/01 -> | 14 |
| Thesis | 1.9 | JTD | | 10/01 -> | 14 |
| Thesis | 2.4 | JTD | 841C.000 | 04/02 -> | 14 |
| Ypsilon | 1.3 | JTD | 189 A9.000 | 10/04 -> | 48 |
| Zeta | 1.9 | TD | XUD 9T | 04/95 -> 09/02 | 2 |
| Zeta | 2.0 | D | | 2000-> 09/02 | 17 |
| Zeta | 2.1 | TD | P8C | 07/96 -> 1999 | 2 |

| Land Rover | | | | | |
|-------------|-----------|-----|---------------|----------------|----|
| Defender | 2.5 (90) | TDi | 23L | 09/90 -> 12/98 | 15 |
| Defender | 2.5 (110) | TDi | 23L | 09/90 -> 12/98 | 15 |
| Defender | 2.5 | Td5 | | 06/98 -> | 15 |
| Discovery | 2.5 | TDi | 12L 21L | 08/96 -> | 15 |
| Discovery | 2.5 | TDi | 19L | 10/95 -> | 15 |
| Freelander | 2.0 | Di | 20TCIE | 07/97 -> 11/00 | 12 |
| Freelander | 2.0 | Td4 | M47 D20 (BMW) | 11/00 -> | 12 |
| Range Rover | 2.5 | TDi | 14L | 08/94 -> 03/02 | 15 |
| Range Rover | 2.5 | TDS | M51 D25 (BMW) | 11/94 -> 03/02 | 2 |
| Range Rover | 3.0 | Td6 | M57 D30 (BMW) | 03/02 -> | 12 |

| LDV | | | | | |
|-------|-----|----|-------|----------------|---|
| 200 | 1.9 | D | XUD9 | 10/94 -> 03/96 | 2 |
| 200 | 2.0 | D | | 1989-> 03/96 | 2 |
| 400 | 2.5 | D | | 1989-> 03/96 | 2 |
| 400 | 2.5 | TD | | 1989 -> 10/98 | 2 |
| Cub | 2.3 | D | LD23 | 07/98 -> | 8 |
| Pilot | 1.9 | D | XUD9A | 04/96 -> | 2 |

| Mazda | | | | | |
|-------|----------|----------|---------|----------------|----|
| 121 | 1.8 | D | RTJ | 03/96 -> | 2 |
| 2 | 1.4 | CD | F6JA | 04/03 -> | 20 |
| 3 | 1.6 | DI Turbo | Y601 | 06/04-> | 20 |
| 626 | 2.0 (GE) | D | RF | 10/92 -> 04/97 | 8 |
| 626 | 2.0 | D | RF-CX | 05/93 -> 11/96 | 8 |
| 626 | 2.0 | D | | 11/94 -> 02/98 | 8 |
| B2500 | 2.5 | TD | MD25 TI | 06/99 -> | 8 |
| E2200 | 2.2 | D | R2 | 02/97 -> | 8 |
| MPV | 2.5 | TD | | 05/96->09/99 | 8 |

| Mercedes | | | | | |
|----------|-----------|-----|-----------|----------------|---|
| 200 | 290 - 2.9 | TD | OM602.942 | 04/92 -> | 3 |
| 200 | 290 - 2.9 | TDi | OM602.983 | 07/97 -> | 3 |
| 300 | 350 - 3.5 | D | OM603.972 | 09/91 -> 09/96 | 3 |
| 300 | 350 - 3.5 | TD | 603.972 | 09/93 -> 08/96 | 3 |
| 400 | 408 - 2.3 | D | OM601 | 09/88 -> 10/94 | 3 |
| 500 | 508 - 2.3 | D | | 03/89 -> 07/96 | 3 |

| Mercedes Cont'd | | | | | |
|-----------------|--------------|-----|----------------------------|----------------|----|
| 600 | 612 - 2.9 | TD | 602980 | 08/96 -> | 2 |
| C-Class | C180 - 1.8 | D | (202) OM604 | 10/98 -> 05/00 | 3 |
| C-Class | C200 - 2.0 | D | (202) OM601.913 | 06/93 -> 05/00 | 3 |
| C-Class | C200 - 2.0 | D | (202) OM604.915 | 10/96 -> 05/00 | 1 |
| C-Class | C200 - 2.1 | CDi | (203) OM611.962 | 09/00 -> | 15 |
| C-Class | C200 - 2.1 | CDi | (203) OM | 04/03 -> | 15 |
| C-Class | C200 - 2.2 | CDi | (202) OM611.960 | 03/98 -> 05/00 | 15 |
| C-Class | C200 - 2.2 | CDi | OM | 03/98 -> 05/00 | 15 |
| C-Class | C220 - 2.2 | D | (202) OM604.910, 021.056-> | 07/93 -> 05/98 | 3 |
| C-Class | C220 - 2.2 | D | (202) OM611.913/915 | 07/96 -> 05/00 | 1 |
| C-Class | C220 - 2.2 | CDi | (202) OM611.960 | 09/97 -> 05/00 | 15 |
| C-Class | C220 - 2.2 | CDi | (203) OM611.962 | 05/00 -> 02/04 | 15 |
| C-Class | C220 - 2.2 | CDi | (203) OM646.963 | 02/04 -> | 15 |
| C-Class | C250 - 2.5 | TD | (202) OM605.960 | 05/96 -> 05/00 | 1 |
| C-Class | C270 - 2.7 | CDi | (203) OM612.962 | 06/00 -> | 15 |
| CLK-Class | CLK270 - 2.7 | CDi | (209) OM612.962/967 | 10/02 -> | 15 |
| E-Class | E200 - 2.0 | D | (210) OM604.917 | 06/95 -> 07/99 | 1 |
| E-Class | E200 - 2.1 | CDi | (210) OM611.960 | 06/98 -> 07/99 | 15 |
| E-Class | E200 - 2.1 | CDi | (210) OM611.962 | 07/99 -> 03/02 | 15 |
| E-Class | E200 - 2.1 | TD | (211) OM | 06/02 -> | 15 |
| E-Class | E220 - 2.2 | D | (210) OM604.912 | 03/95 -> 06/98 | 1 |
| E-Class | E220 - 2.2 | D | (210) OM604.913 | 05/96 -> 07/99 | 1 |
| E-Class | E220 - 2.2 | CDi | (210) OM611.961 | 07/98 -> 06/00 | 15 |
| E-Class | E220 - 2.2 | CDi | (210) OM611.962 | 07/99 -> 03/02 | 15 |
| E-Class | E220 - 2.2 | CDi | (210) OM611.961 | 03/02 -> | 15 |
| E-Class | E250 - 2.5 | D | (124) OM605.911 | 07/93 -> 05/96 | 1 |
| E-Class | E250 - 2.5 | TD | (124) OM602.962 | 07/93 -> 06/95 | 3 |
| E-Class | E250 - 2.5 | TD | (210) OM605.912 | 03/95 -> 05/95 | 1 |
| E-Class | E250 - 2.5 | TD | (210) OM605.962 | 07/97 -> 07/99 | 1 |
| E-Class | E270 - 2.7 | CDi | (210) OM612.961 | 07/99 -> 03/02 | 15 |
| E-Class | E270 - 2.7 | CDi | (211) OM647.961 | 04/02 -> | 15 |
| E-Class | E300 - 3.0 | TD | (124) OM603.960 / 963 | 07/93 -> 05/95 | 3 |
| E-Class | E300 - 3.0 | TD | (124)OM606.910 | 06/95 -> 06/96 | 1 |
| E-Class | E300 - 3.0 | TD | (210) OM606.962 | 06/96 -> 08/99 | 1 |
| E-Class | E320 - 3.2 | DCi | (210) OM613.961 | 07/99 -> 03/02 | 15 |
| E-Class | E320 - 3.2 | DCi | 9211) OM648.961 | 11/02 -> | 15 |
| G-Class | G240 - 2.5 | D | (460) OM602.930 | 02/89 -> 12/92 | 3 |
| G-Class | G270 - 2.7 | CDi | (463) OM612.966 | 10/01 -> | 15 |
| G-Class | G300 - 3.0 | TD | (463) OM606.964 | 09/96 -> 09/00 | 1 |
| G-Class | G350 - 3.5 | TD | (463) OM603.972 | 08/93 -> 09/96 | 3 |
| G-Class | G400 - 4.0 | CDi | (463) OM628.962 | 09/00 -> | 15 |
| ML-Class | ML270 - 2.7 | CDi | (163) OM612.963 | 02/98 -> | 15 |
| ML-Class | ML400 - 4.0 | CDi | (163) OM628.963 | 09/01 -> | 15 |
| S-Class | S300 - 3.0 | TD | (140) OM606.961 | 06/96 -> 10/98 | 1 |
| S-Class | S320 - 3.2 | CDi | (220) M613.960 | 01/00 -> | 15 |
| S-Class | S350 - 3.5 | TD | (140) OM603.971 | 10/95 -> 08/96 | 1 |
| S-Class | S400 - 4.0 | CDi | (220) M628.960 | 01/00 -> | 15 |
| Sprinter | 2.2 | CDi | OM611.960 | 04/00 -> | 15 |
| Sprinter | 2.2 | CDi | | 04/00 -> | 15 |
| Sprinter | 2.2 | CDi | OM611A | 04/00 -> | 15 |
| Sprinter | 2.3 | D | OM601.943 | 12/94 -> 03/00 | 3 |
| Sprinter | 2.7 | CDi | OM612 | 04/00 -> | 15 |
| Sprinter | 2.9 | D | OM602.980.10 (Dela ->9849) | 02/95 -> | 2 |
| Sprinter | 2.9 | D | OM602.980.12 (Dela->136) | 02/95 -> | 2 |
| V-Class | V200 - 2.0 | CDi | OM611.960 | 03/99 -> 09/03 | 15 |
| V-Class | V220 - 2.2 | CDi | OM611.980 | 03/99 -> 09/03 | 15 |
| V-Class | V230 - 2.3 | TD | OM601.970 | 09/96 -> 02/99 | 3 |
| Viano | 2.2 | Cdi | OM646.982 | 09/03 -> | 15 |
| Vito | 2.2 | CDi | OM611A | 03/99 -> 09/03 | 15 |

| Mercedes Cont'd | | | | | |
|-----------------|-----|-----|-----------|----------------|----|
| Vito | 2.2 | Cdi | OM646.983 | 09/03 -> | 15 |
| Vito | 2.2 | CDi | OM611.960 | 03/98 -> 09/03 | 15 |
| Vito | 2.2 | Cdi | OM646.982 | 09/03 -> | 15 |
| Vito | 2.2 | CDi | OM611.980 | 03/99 -> 09/03 | 15 |
| Vito | 2.3 | D | OM601.942 | 02/96 -> 09/03 | 3 |
| Vito | 2.3 | TD | OM601.970 | 03/96 -> 02/98 | 3 |

| MG | | | | | |
|----|-----|------|-------|--------------|----|
| ZR | 2.0 | TD | | 06/01-> | 12 |
| ZS | 2.0 | TD | | 01/04-> | 12 |
| ZT | 2.0 | CDTi | 204D2 | 06/02->09/03 | 12 |

| Mitsubishi | | | | | |
|------------|-----|------|-------|----------------|----|
| Carisma | 1.9 | TD | F8QT | 10/96 -> | 2 |
| Challenger | 2.5 | D | 4D56T | 11/98 -> | 8 |
| Pajero | 3.2 | Di-D | 4M41 | 04/00 -> 10/01 | 10 |
| Shogun | 3.2 | Di-D | 4M41 | 04/00 -> | 10 |

| Nissan | | | | | |
|-------------|-----|---------|--------------|----------------|----|
| Almera | 1.5 | dCi | | 01/03 -> | 12 |
| Almera | 2.0 | D | CD20 | 11/95 -> 03/00 | 7 |
| Almera | 2.2 | Di | YD22DDT | 03/00 -> | 10 |
| Almera Tino | 2.2 | Di | YD22DDTi | 08/00 -> | 10 |
| Brougham | 2.3 | D | TD23 | 01/93 -> | 8 |
| Brougham | 2.3 | TD | TD23 | 01/93 -> | 8 |
| Cabstar | 2.3 | D | LD23 | 02/99 -> 12/01 | 8 |
| Cabstar | 2.5 | TD | | 01/82 -> 07/97 | 8 |
| Cargo | 2.3 | D | LD23 | 09/94 -> | 8 |
| D21 | 2.5 | D | TD25 | 01/93 -> | 8 |
| D21 | 2.7 | D | TD27 | 01/93 -> | 8 |
| D21 | 2.7 | D | TD27T | 01/93 -> | 8 |
| Interstar | 1.9 | dCi 80 | F9Q, 772 | 07/02 -> | 12 |
| Interstar | 2.2 | dCi 90 | G9T 722 | 07/02 -> | 19 |
| Interstar | 2.5 | dCi 100 | G9U 632, 650 | 11/03 -> | 19 |
| Interstar | 2.5 | dCi 120 | G9U | 07/02 -> | 19 |
| Interstar | 2.5 | dCi 150 | | 09/06 -> | 19 |
| King Cab | 2.5 | D | TD25 | 1993-> | 8 |
| King Cab | 2.5 | TD | TD25 | 02/98 -> | 8 |
| King Cab | 2.5 | TDi | TD25Ti | 05/98 -> | 8 |
| March | 1.5 | D | TUD5 | 10/96 -> | 12 |
| Micra | 1.5 | D | TUD5,TUD15 | 05/98 -> 12/02 | 12 |
| Micra | 1.5 | TD | K9K | 2002-> | 12 |
| Navara | 2.5 | dCi | YD25 | 05/05 -> | 10 |
| Navara | 2.5 | dCi | YD25 | 05/05 -> | 10 |
| Note | 1.5 | dCi lp | K9K | 03/06 -> | 12 |
| Note | 1.5 | dCi hp | K9K | 03/06 -> | 12 |
| Pathfinder | 2.5 | dCi | YD25DDTi | 03/05 -> | 10 |
| Pathfinder | 2.7 | D | TD25,TD27 | 02/93 -> | 8 |
| Pathfinder | 2.7 | D | TD27T | 02/93 -> | 8 |
| Pathfinder | 2.7 | TD | TD27ET | 1993-> | 8 |
| Patrol | 2.7 | TD | TD27 | 02/93 -> | 8 |
| Pick-Up | 2.5 | D | TD25 | 02/98 -> | 8 |
| Pick-Up | 2.5 | TD | TD25 | 10/87 -> 01/98 | 8 |
| Pick-Up | 2.7 | TD | TD27 | | 8 |
| Primastar | 1.9 | dCi | | 03/01-> | 12 |
| Primera | 2.0 | D | CD20 | 12/90 -> 09/96 | 7 |
| Primera | 2.2 | Di | | 03/02 -> | 10 |
| Serena | 2.3 | D | LD23 | 10/94 -> | 8 |

| Nissan (Cont'd) | | | | | |
|-----------------|-----|-----|-------------|----------------|----|
| Terrano | 2.7 | D | TD27, TD27T | 02/93 -> 06/96 | 8 |
| Terrano | 2.7 | TD | TD27T | 1993 -> 09/97 | 8 |
| Trade | 2.3 | D | LD23 | 05/97 -> | 8 |
| Urvan | 2.5 | D | TD25 | 1993->10/96 | 8 |
| Vanette | 2.3 | D | LD23 | 09/94 -> 02/98 | 8 |
| X-Trail | 2.2 | Di | YD22ET1 | 06/01 -> | 10 |
| X-Trail | 2.2 | dCi | YD22ET1 | 12/03 -> | 10 |

| Peugeot | | | | | |
|---------|-----|-----|-------------------|----------------|----|
| 106 | 1.5 | D | TUD5,TUD5B | 03/94 -> | 12 |
| 107 | 1.4 | HDi | DV4D | 06/05 -> | 20 |
| 1007 | 1.4 | HDi | DV4TD (8HX, 8HZ) | 04/05 -> | 20 |
| 205 | 1.8 | D | XUD7 | 10/83 -> 05/97 | 2 |
| 205 | 1.8 | TD | XU7.DT,XUD7 | 07/85 -> 05/97 | 2 |
| 206 | 1.4 | HDi | | 2001-> | 20 |
| 206 | 1.6 | HDi | 9HY (DV6 TED4) | 05/04 -> | 20 |
| 206 | 1.9 | D | DW8,DW8B | 07/98 -> | 12 |
| 206 | 2.0 | HDi | DW10,DW10TD | 10/99 -> | 17 |
| 306 | 1.8 | D | XUD7(CEE95L3) | 1994->08/98 | 2 |
| 306 | 1.8 | D | XUD7 | 06/95 -> 03/01 | 2 |
| 306 | 1.8 | D | XUD7(CEE95L3) | 09/98 -> 03/01 | 2 |
| 306 | 1.9 | D | XUD9 | 04/92 -> 03/01 | 2 |
| 306 | 1.9 | D | XUD9A,L | 03/93 -> 03/01 | 2 |
| 306 | 1.9 | D | DW8,DW8B | 04/98 -> 03/01 | 12 |
| 306 | 1.9 | TD | XUD9TE | 03/93 -> 03/01 | 2 |
| 306 | 2.0 | HDi | DW10,DW10TD | 08/98 -> 03/01 | 17 |
| 307 | 1.4 | HDi | DV4TD | 04/01 -> | 20 |
| 307 | 1.6 | HDi | 9HY (DV6 TED4) | 02/04 -> | 20 |
| 307 | 2.0 | HDi | DW10TD | 04/01 -> | 17 |
| 307 | 2.0 | HDi | DW10ATED | 04/01 -> | 17 |
| 307 | 2.0 | HDi | RHR (DW10 BTED4) | 10/03 -> | 17 |
| 405 | 1.9 | D | XUD9 | 03/88 -> 01/97 | 2 |
| 405 | 1.9 | D | XUD9A | 02/97 -> | 2 |
| 405 | 1.9 | TD | XUD9TE,XUD9TF | 09/92 -> 01/97 | 2 |
| 406 | 1.9 | TD | XUD9BTF,SD,TE | 10/95 -> 08/98 | 2 |
| 406 | 1.9 | TD | XUD9BTF,SD,TE | 09/98 -> 03/99 | 2 |
| 406 | 2.0 | HDi | DW10TD | 04/99 -> | 17 |
| 406 | 2.0 | HDi | DW10ATED4 (RHS) | 08/01 -> | 17 |
| 406 | 2.1 | TD | XUD11BTE | 10/95 -> 08/98 | 2 |
| 406 | 2.1 | TD | XUD11BTE | 09/98 -> 03/99 | 2 |
| 406 | 2.2 | HDi | DW12TED4 | 02/00 -> | 17 |
| 406 | 2.2 | HDi | DW12TED | 09/00 -> | 17 |
| 407 | 1.6 | HDi | 9HY (DV6 TED4) | 05/04 -> | 20 |
| 407 | 2.0 | HDi | RHR (DW10 BTED4) | 05/04 -> | 17 |
| 605 | 2.1 | TD | XUD11BTE(CEE95L3) | 06/89 -> 08/98 | 2 |
| 605 | 2.1 | TD | XUD11BTE(CEE19.5) | 06/89 -> 02/00 | 2 |
| 605 | 2.1 | TD | XUD11BTE(CEE95L3) | 09/98 -> 02/00 | 2 |
| 605 | 2.5 | TD | DK5ATE | 07/94 -> 08/98 | 2 |
| 607 | 2.0 | HDi | DW10ATED | 02/00 -> | 17 |
| 607 | 2.2 | HDi | DW12TED4 | 02/00 -> | 17 |
| 806 | 1.9 | TD | XUD9TE | 07/94 -> 2002 | 2 |
| 806 | 2.0 | HDi | DW10TED,4 | 09/98 -> 2002 | 17 |
| 806 | 2.1 | TD | XUD11ATE,BTE | 05/95 -> 09/99 | 2 |
| 807 | 2.0 | HDi | DW10TD,DW10TED | 2002-> | 17 |
| 807 | 2.2 | HDi | DW12TED4 | 2002-> | 17 |
| Bipper | 1.4 | HDi | DV4TED | 02/08 -> | 20 |
| Boxer | 1.8 | D | XUD7 | 09/98 -> | 2 |
| Boxer | 1.9 | D | XUD9 | 07/95 -> 08/98 | 2 |
| Boxer | 1.9 | D | XUD9,XUD9AU | 09/98 -> | 2 |

| Peugeot (Cont'd) | | | | | |
|------------------|-----|---------|----------------|----------------|----|
| Boxer | 1.9 | TD | XUD9TE | 03/94 -> 08/98 | 2 |
| Boxer | 1.9 | TD | XUD9TE,XUD9UTF | 09/98 -> | 2 |
| Boxer | 2.0 | HDi | DW10TD | 09/98 -> | 17 |
| Boxer | 2.0 | HDi | DW10UTD (RHV) | 04/02 -> | 17 |
| Boxer | 2.2 | HDi | DW12UTED (4HY) | 04/02 -> | 17 |
| Boxer | 2.2 | HDi 100 | PUMA 22 DT | 04/06 -> | 18 |
| Boxer | 2.2 | HDi 120 | PUMA 22 DT | 04/06 -> | 18 |
| Boxer | 2.5 | D | DJ5 | 03/94 -> | 2 |
| Boxer | 2.5 | DTi | DJ5T | 03/94 -> | 2 |
| Boxer | 2.5 | DTi | DJ5TED | 09/96 -> | 15 |
| Boxer | 2.8 | JTD | | 10/97 -> | 2 |
| Expert | 1.9 | D | XUD9A,L | 09/95 -> | 2 |
| Expert | 1.9 | D | DW8 | 07/98 -> | 12 |
| Expert | 1.9 | D | XUD9A,L | 09/98 -> | 2 |
| Expert | 1.9 | TD | XUD9TE | 09/95 -> | 2 |
| Expert | 2.0 | HDi | DW10TD | 12/99 -> | 17 |
| Expert | 2.0 | HDi | DW10ATED | 07/00 -> | 17 |
| J5 | 2.5 | D | DJ5 | 02/94 -> | 2 |
| J5 | 2.5 | TD | DJ5T | 02/94 -> | 2 |
| Partner | 1.8 | D | XUD7 | 08/96 -> | 2 |
| Partner | 1.9 | D | XUD9A | 08/96 -> 08/98 | 2 |
| Partner | 1.9 | D | DW8 | 07/98 -> | 12 |
| Partner | 1.9 | D | XUD9A | 09/98 -> | 2 |
| Partner | 2.0 | HDi | DW10TD | 12/99 -> | 17 |
| Ranch | 1.9 | D | XUD9A | 05/96 -> | 2 |

| Renault | | | | | |
|----------|-----|-----|-------------------------|----------------|----|
| 19 | 1.9 | TD | F8Q-740,744 | 09/90 -> 03/96 | 2 |
| Avantime | 2.2 | dCi | F9Q | 09/01 -> | 12 |
| Avantime | 2.2 | dCi | G9T-720 | 09/01 -> | 19 |
| Clio | 1.5 | DCi | K9K65,K9K80,K9K700 | 06/01 -> | 12 |
| Clio | 1.5 | dCi | K9K 768 | 06/05 -> | 12 |
| Clio | 1.5 | dCi | K9K 766 | 06/05 -> | 12 |
| Clio | 1.5 | dCi | K9K 764 | 06/05 -> | 12 |
| Clio | 1.9 | D | F8Q-676,678,692,696 | 03/91 -> 08/98 | 2 |
| Clio | 1.9 | D | F8Q.630,662 | 03/98 -> | 13 |
| Clio | 1.9 | D | F8Q-632 | 01/99 -> | 13 |
| Clio | 1.9 | D | F9Q.780 | 03/99 -> | 12 |
| Clio | 1.9 | DTi | F9Q.716 | 02/99 -> | 12 |
| Espace | 1.9 | DTi | F9Q-722 | 02/99 -> | 12 |
| Espace | 1.9 | DCi | F9Q-820 | 11/02 -> | 12 |
| Espace | 2.1 | TD | J8S-610,772,776,778 | 04/91 -> 09/96 | 2 |
| Espace | 2.2 | DCi | G9T-710 | 09/00 -> | 19 |
| Espace | 2.2 | TD | G8T- 714,716 | 10/96 -> 08/00 | 12 |
| Espace | 2.2 | DCi | G9T-742, 743 | 11/02 -> | 19 |
| Express | 1.9 | D | F8Q 640,644,646,648,682 | 09/94 -> | 2 |
| Extra | 1.9 | D | F8Q 640 | 01/96 -> | 2 |
| Kangoo | 1.5 | DCi | K9K-710 | 09/02 -> | 12 |
| Kangoo | 1.5 | DCi | K9K-700, 704 | 12/01 -> | 12 |
| Kangoo | 1.5 | DCi | K9K-702 | 07/02 -> | 12 |
| Kangoo | 1.9 | D | F8Q-630 | 03/98 -> | 13 |
| Kangoo | 1.9 | D | F8Q-662 | 03/98 -> | 13 |
| Kangoo | 1.9 | D | F8Q-632 | 03/99 -> | 13 |
| Kangoo | 1.9 | DTi | F9Q-780 | 02/00 -> | 12 |
| Kangoo | 1.9 | DTi | F9Q-790 | 10/01 -> | 12 |
| Laguna | 1.5 | dCi | | 10/07 -> | 12 |
| Laguna | 1.9 | DTi | F9Q.716 | 05/98 -> 01/99 | 12 |
| Laguna | 1.9 | DTi | F9Q710,717,718 | 01/99 -> 12/00 | 12 |
| Laguna | 1.9 | DCi | F9QT-750,751,752 | 01/01 -> | 12 |

| Renault (Cont'd) | | | | | |
|------------------|-----|-----|-------------------------|----------------|----|
| Laguna | 2.0 | dCi | M9R 920 | 10/07 -> | 12 |
| Laguna | 2.2 | D | G8T-706,752,790,792,794 | 02/96 -> 06/98 | 12 |
| Laguna | 2.2 | TD | G8T | 01/94 -> 03/01 | 12 |
| Laguna | 2.2 | TD | G8T-760 | 02/96 -> 06/98 | 12 |
| Laguna | 2.2 | DCi | F9Q | 03/01 -> | 12 |
| Laguna | 2.2 | DCi | G9T-702 | 01/02 -> | 19 |
| Master | 1.9 | DTi | F9Q-770 | 09/99 -> | 12 |
| Master | 2.2 | D | G9T-720 (722 INTD) | 10/00 -> | 19 |
| Master | 2.2 | DCi | F9Q | 06/00 -> | 12 |
| Master | 2.5 | D | S8U-730,731,742 | 06/82 -> 07/98 | 2 |
| Master | 2.5 | TD | Sofi m 8140,27,2580 | 08/89 -> 07/98 | 2 |
| Master | 2.5 | dCi | G9T 722 | 10/03 -> | 19 |
| Master | 2.5 | dCi | G9T-720 | 10/01 -> | 19 |
| Megane | 1.5 | DCi | | 09/02 -> | 12 |
| Megane | 1.9 | DCi | F9Q | 11/03 -> | 12 |
| Megane | 1.9 | D | F8Q-620,624 | 11/95 -> | 2 |
| Megane | 1.9 | D | F8Q-620 | 01/96 -> | 2 |
| Megane | 1.9 | D | F8Q-788 | 03/98 -> | 13 |
| Megane | 1.9 | D | F8Q-622,790 | 03/99 -> | 13 |
| Megane | 1.9 | TD | F8Q-784 | 01/96 -> | 2 |
| Megane | 1.9 | DCi | F9Q-731,736 | 01/99 -> 08/02 | 12 |
| Megane | 1.9 | DCi | F9Q-732,733 | 03/99 -> 08/02 | 12 |
| Megane | 1.9 | DTi | F9Q-730,734 | 04/97 -> 02/99 | 12 |
| Megane | 1.9 | DTi | F9Q-731,732,736,740 | 01/99 -> 08/02 | 12 |
| Megane | 1.9 | DTi | F9Q-731,736 | 01/99 -> 08/02 | 12 |
| Megane | 1.9 | DTi | F9Q-744 | 02/01 -> 08/02 | 12 |
| Megane Scenic | 1.9 | D | F8Q-620,624 | 11/95 -> 02/99 | 2 |
| Megane Scenic | 1.9 | D | F8Q-788 | 03/98 -> 09/99 | 13 |
| Megane Scenic | 1.9 | D | F8Q-622,790 | 01/99 -> 09/99 | 13 |
| Megane Scenic | 1.9 | Di | F9QT-770 | 06/00 -> | 12 |
| Megane Scenic | 1.9 | TD | F8Q-784 | 01/96 -> 09/99 | 2 |
| Megane Scenic | 1.9 | TD | F9Q-730, 734 | 01/96 -> 09/99 | 12 |
| Megane Scenic | 1.9 | dCi | F9Q-730,734 | 01/96 -> 09/99 | 12 |
| Megane Scenic | 1.9 | dCi | F9Q-732,733 | 03/99 -> | 12 |
| Megane Scenic | 1.9 | dCi | F9Q-731,736 | 03/99 -> 09/99 | 12 |
| Megane Scenic | 1.9 | dCi | F9Q-716, 718 | 06/00 -> | 12 |
| Megane Scenic | 1.9 | DTi | F9Q-731,732,736,740 | 01/99 -> | 12 |
| Megane Scenic | 1.9 | DTi | F9Q-716, 718 | 03/99 -> | 12 |
| Megane Scenic | 1.9 | DTi | F9Q-744 | 02/01 -> | 12 |
| Modus | 1.5 | dCi | | 12/04-> | 12 |
| Rapid | 1.9 | D | F8Q-640 | 09/94 -> 03/98 | 2 |
| Safrane | 2.1 | TD | J8S-760 | 04/92 -> 10/96 | 2 |
| Safrane | 2.2 | TD | G8T-740 | 10/96 -> 11/01 | 12 |
| Safrane | 2.5 | TD | S8U-762,763 | 05/93 -> 10/96 | 2 |
| Scenic | 1.5 | dCi | K9K-722 | 06/03 -> | 12 |
| Scenic | 1.5 | dCi | K9K-728 | 12/03 -> | 12 |
| Scenic | 1.9 | dCi | F9Q-730, 734 | 01/96 -> 09/99 | 12 |
| Scenic | 1.9 | dCi | F9Q-731, 736 | 03/99 -> 09/99 | 12 |
| Scenic | 1.9 | dCi | F9Q-716, 733 | 11/00 -> | 12 |
| Scenic | 1.9 | dCi | | 06/03 -> | 12 |
| Scenic | 1.9 | dCi | F9Q-812 | 06/03 -> | 12 |
| Scenic | 1.9 | dCi | | 05/05 -> | 12 |
| Thalia | 1.5 | dCi | K9K-700 | 04/02 -> | 12 |
| Thalia | 1.5 | dCi | K9K-702 | 06/01 -> | 12 |
| Trafic | 1.9 | D | F8Q-600,606 | 05/98 -> 03/01 | 13 |
| Trafic | 1.9 | dCi | F9Q-760, 762 | 03/01 -> | 12 |
| Trafic | 2.1 | D | J8S-620,622,758 | 09/80 -> 10/97 | 2 |
| Trafic | 2.1 | D | 852-750 | 09/80 -> 10/97 | 2 |
| Trafic | 2.5 | D | Sofi m S8U | 10/82 -> 10/97 | 2 |

| Renault (Cont'd) | | | | | |
|------------------|-----|-----|-------------------|----------------|----|
| Trafic | 2.5 | D | 8140.67.2500 | 03/90 -> 10/97 | 2 |
| Trafic | 2.5 | dCi | G9U-730 | 05/03 -> | 19 |
| Vel Satis | 2.2 | dCi | G9T 600, 702, 703 | 04/02 -> | 19 |

| Rover | | | | | |
|-------|-----------|------|------------------------|----------------|----|
| 25 | 2.0 | TD | 20T | 10/99 -> | 12 |
| 45 | 2.0 | TD | 20T | 02/00 -> | 12 |
| 75 | 2.0 | CDT | M47R (BMW) | 04/99 -> | 12 |
| 75 | 2.0 | CDTi | 204 D2 | 02/03 -> | 12 |
| 100 | 115 - 1.5 | D | TUD5 | 03/95 -> | 12 |
| 200 | 218 - 1.9 | D | XUD 9A | 03/91 -> 03/00 | 2 |
| 200 | 218 - 1.9 | D | XUD9 | 09/91 -> 03/00 | 2 |
| 200 | 220 - 2.0 | D | 20T2N, 20T2R | 01/96 -> 03/00 | 12 |
| 400 | 418 - 1.8 | TD | XUD 7TE | 03/91 -> 03/00 | 2 |
| 400 | 418 - 1.9 | D | XUD 9A | 03/91 -> 03/00 | 2 |
| 400 | 420 - 2.0 | SD | 20T2R | 03/96 -> | 12 |
| 400 | 420 - 2.0 | SDi | 20T2N | 03/96 -> | 12 |
| 600 | 620 - 2.0 | TD | 20T2N | 02/95 -> 06/99 | 12 |
| 800 | 825 - 2.5 | TD | VM HR-492/VM 425 SLIRR | 01/93 -> 04/95 | 2 |
| 800 | 825 - 2.5 | TD | VM425 Slira | 05/95 -> 02/99 | 12 |

| Saab | | | | | |
|------|-----|------|--------------|----------------|----|
| 9-3 | 2.2 | TiD | D223L/X22DTH | 09/98 -> 11/00 | 15 |
| 9-3 | 2.2 | TiD | | 11/00 -> | 15 |
| 9-3 | 1.9 | CDTi | Z19DTH | 09/04 -> | 47 |

| Seat | | | | | |
|----------|-----|-----|---------------------|----------------|----|
| Alhambra | 1.9 | TDi | 1Z,AFN | 01/96 -> | 12 |
| Alhambra | 1.9 | TDi | AHU | 07/96 -> | 12 |
| Alhambra | 1.9 | TDi | ANU | 03/99 -> 09/01 | 12 |
| Alhambra | 1.9 | TDi | AVG | 06/99 -> | 12 |
| Alhambra | 1.9 | TDi | AJM | 04/00 -> | 12 |
| Alhambra | 1.9 | TDi | AUY | 06/00 -> | 12 |
| Alhambra | 1.9 | TDi | ASZ | 11/02 -> | 12 |
| Arosa | 1.4 | TDi | AMF | 08/99 -> | 12 |
| Arosa | 1.7 | SDi | AKU | 10/97 -> | 12 |
| Cordoba | 1.7 | SDi | | 07/97 -> 06/99 | 12 |
| Cordoba | 1.9 | D | 1Y | 05/93 -> 08/99 | 2 |
| Cordoba | 1.9 | SDi | AEF | 03/93 -> 08/99 | 2 |
| Cordoba | 1.9 | SDi | AEY | 01/96 -> 09/02 | 12 |
| Cordoba | 1.9 | SDi | AQM,AGP | 06/99 -> | 12 |
| Cordoba | 1.9 | SDi | ASY | 10/02 -> | 12 |
| Cordoba | 1.9 | TD | AAZ | 05/94 -> 08/99 | 2 |
| Cordoba | 1.9 | TDi | 1Z,AHU,ALH,AGR | 08/96 -> | 12 |
| Cordoba | 1.9 | TDi | AFN,ASK,ASV | 06/97 -> | 12 |
| Cordoba | 1.9 | TDi | ASZ | 10/02 -> | 12 |
| Cordoba | 1.9 | TDi | ATD | 10/02 -> | 12 |
| Ibiza | 1.7 | SDi | | 07/97 -> 08/99 | 12 |
| Ibiza | 1.9 | D | EAF | 03/93 -> | 2 |
| Ibiza | 1.9 | D | 1Y | 05/93 -> 08/96 | 2 |
| Ibiza | 1.9 | SDi | AEF | 03/93 -> 08/99 | 2 |
| Ibiza | 1.9 | SDi | AEY | 03/93 -> 08/99 | 12 |
| Ibiza | 1.9 | SDi | AQM,AGP | 08/99 -> | 12 |
| Ibiza | 1.9 | TD | AAZ | 05/93 -> | 2 |
| Ibiza | 1.9 | TDi | 1Z,AHU,AFN | 08/96 -> 08/99 | 12 |
| Ibiza | 1.9 | TDi | ALK,ALH,AGR,ASK,ASV | 08/99 -> | 12 |
| Inca | 1.9 | D | 1Y,1EY | 11/95 -> | 2 |

| Seat (cont'd) | | | | | |
|---------------|-----|-----|-------------|----------------|----|
| Inca | 1.9 | SDi | AEY,AYQ | 11/95 -> | 12 |
| Leon | 1.9 | SDi | AQM | 11/99 -> | 12 |
| Leon | 1.9 | TDi | ALG,AGR | 09/99 -> | 12 |
| Leon | 1.9 | TDi | ASV,AHF | 09/99 -> | 12 |
| Leon | 1.9 | TDi | ARL | 01/01 -> | 12 |
| Toledo | 1.9 | D | 1Y | 03/91 -> 10/98 | 2 |
| Toledo | 1.9 | SDi | AEY | 12/95 -> 03/99 | 12 |
| Toledo | 1.9 | TD | AAZ | 03/91 -> 04/97 | 2 |
| Toledo | 1.9 | TDi | 1Z,AFN | 08/96 -> 10/98 | 12 |
| Toledo | 1.9 | TDi | AGR,AHU,ALH | 01/97 -> | 12 |
| Toledo | 1.9 | TDi | AHF,ASV | 11/98 -> | 12 |
| Toledo | 1.9 | TDi | ASZ | 05/03-> | 12 |
| Toledo | 1.9 | TDi | ARL | 01/01 -> | 12 |

| Skoda | | | | | |
|----------|-----|-----|---------------------|-------------|----|
| Fabia | 1.4 | TDi | AMF | 04/03 -> | 12 |
| Fabia | 1.9 | SDi | ASY | 1999-> | 12 |
| Fabia | 1.9 | SDi | AGP | 12/99 -> | 12 |
| Fabia | 1.9 | TDi | ATD | 1999-> | 12 |
| Fabia | 1.9 | TDi | AJM | 12/99 -> | 12 |
| Fabia | 1.9 | TDi | AHF | 10/00 -> | 12 |
| Felicia | 1.9 | D | 1Y | 09/96 -> | 2 |
| Felicia | 1.9 | D | AEF | 1996->06/01 | 2 |
| Octavia | 1.9 | D | AGP | 07/96 -> | 12 |
| Octavia | 1.9 | SDi | AEY | 09/96 -> | 12 |
| Octavia | 1.9 | SDi | AGP,AQM | 05/97 -> | 12 |
| Octavia | 1.9 | TDi | 1Z | 1996->07/00 | 12 |
| Octavia | 1.9 | TDi | AGR | 01/96 -> | 12 |
| Octavia | 1.9 | TDi | ALH | 07/96 -> | 12 |
| Octavia | 1.9 | TDi | AHF | 01/97 -> | 12 |
| Octavia | 1.9 | TDi | AGR,AHF,ALH,ASV,ATD | 08/00 -> | 12 |
| Octavia | 1.9 | TDi | AJM, AUJ | 10/00 -> | 12 |
| Octavia | 1.9 | TDi | ATD | 10/00 -> | 12 |
| Octavia | 1.9 | TDi | ASZ | 02/03 -> | 12 |
| Pick Up | 1.9 | D | AEF | 01/96 -> | 2 |
| Roomster | 1.4 | TDi | BNM, BMS | 09/06 -> | 12 |
| Superb | 1.9 | TDi | AVB | 08/02 -> | 12 |
| Superb | 1.9 | TDi | AVF, AWX | 02/02 -> | 12 |
| Superb | 2.5 | TDi | AYM | 02/02 -> | 16 |
| Superb | 2.5 | TDi | BDG | 06/03 -> | 16 |

| Ssangyong | | | | | |
|-----------|-----|----|-----------|----------------|---|
| Istana | 2.3 | D | 661, 911 | 07/95 -> | 3 |
| Istana | 2.9 | D | 662, 911 | 07/95 -> | 3 |
| Korando | 2.3 | D | OM601 | 01/97 -> | 3 |
| Korando | 2.5 | D | XD3P | 06/93 -> 07/97 | 2 |
| Korando | 2.9 | D | OM602 | 09/96 -> | 3 |
| Korando | 2.9 | D | OM662 | 02/99 -> | 3 |
| Korando | 2.9 | TD | | 04/98 -> | 3 |
| Musso | 2.3 | D | MB OM 601 | 07/93 -> | 3 |
| Musso | 2.9 | D | MB OM 602 | 07/93 -> 01/99 | 3 |
| Rexton | 2.9 | TD | | 04/02 -> | 3 |

| Suzuki | | | | | |
|--------------|-----|------|-----------|----------|----|
| Baleno | 1.9 | TD | XUD9 | 02/99 -> | 2 |
| Grand Vitara | 1.9 | DDIS | F9Q | 10/05 -> | 12 |
| Grand Vitara | 2.0 | TDi | RF | 03/98 -> | 8 |
| Grand Vitara | 2.0 | TDi | DW10, RHW | 2000-> | 17 |

| Suzuki (cont'd) | | | | | |
|-----------------|-----|------|---------------|----------------|----|
| Ignis | 1.3 | DDIS | Z13DT | 09/03 -> | 48 |
| Jimny | 1.5 | DDIS | K9K 700 | 12/03 -> | 12 |
| Liana | 1.4 | TD | 8HY (DV4TED4) | 03/05 -> | 20 |
| Samurai | 1.9 | TD | RFP | 09/98 -> | 2 |
| SX4 | 1.9 | DDIS | | 06/06-> | 14 |
| Vitara | 1.9 | TD | RF | 12/94 -> 03/98 | 8 |
| Vitara | 1.9 | TD | XUD9 | 11/95 -> | 2 |
| Vitara | 1.9 | TD | RF | 12/95 -> 03/98 | 8 |
| Vitara | 2.0 | TD | RF | 08/95 -> | 8 |
| Wagon R | 1.3 | DDIS | Z13DT | 09/03 -> | 48 |

| Toyota | | | | | |
|---------------|-----|------|---------------|----------------|----|
| Avensis | 2.0 | TD | 2C-TE | 10/97 -> 07/00 | 4 |
| Avensis | 2.0 | D-4D | 1CD-FTV | 08/99 -> | 6 |
| Avensis Verso | 2.0 | D-4D | 1CD-FTV | 05/01 -> | 6 |
| Aygo | 1.4 | D | 2WZ-TV | 05/05 -> | 20 |
| Blizzard | 2.4 | TD | 2L-TE | 04/90 -> | 5 |
| Caldina | 2.0 | TD | 2C-T | 01/96 -> 09/97 | 4 |
| Caldina | 2.2 | D | 3C-E | 05/98 -> | 4 |
| Carina E | 2.0 | TD | 2C-T | 01/96 -> 10/97 | 4 |
| Coaster | 3.4 | D | 3B | 08/88 -> 07/99 | 4 |
| Coaster | 4.0 | D | 2H | 08/88 -> 01/90 | 4 |
| Coaster | 4.2 | D | 1HZ | 01/90 -> 07/99 | 4 |
| Coaster | 4.2 | TD | 1H-DT | 01/90 -> 01/93 | 4 |
| Corolla | 2.0 | D | 2C | 05/96 -> 04/97 | 4 |
| Corolla | 2.0 | D | 2C-E | 04/97 -> 10/99 | 4 |
| Corolla | 2.0 | D-4D | 1CD-FTV | 09/00 -> | 6 |
| Corolla Verso | 2.0 | D-4D | 1CD-FTV | 10/01 -> | 6 |
| Corolla Wagon | 2.2 | D | 3C-E | 04/98 -> | 4 |
| Dyna | 2.4 | D | 2L | 08/88 -> 01/99 | 5 |
| Dyna | 2.8 | D | 3L | 08/88 -> 01/99 | 5 |
| Dyna | 3.4 | D | 3B | 05/95 -> | 4 |
| Hiace | 2.4 | D | 2L | 08/89 -> 01/99 | 5 |
| Hiace | 2.8 | D | 3L | 08/89 -> 01/99 | 5 |
| Hilux | 2.4 | D | 2L | 08/88 -> 07/98 | 5 |
| Hilux | 2.4 | TD | 2L-II T/2L-TE | 08/90 -> 09/97 | 5 |
| Hilux | 2.8 | D | 3L | 08/95 -> 07/98 | 5 |
| Land Cruiser | 2.4 | TD | 2L-T | 01/90 -> 01/95 | 5 |
| Land Cruiser | 4.2 | D | 1H-Z | 01/90 -> 05/98 | 4 |
| Land Cruiser | 4.2 | TD | 1HD-T | 01/90 -> 01/98 | 4 |
| Liteace | 2.0 | D | 2C-III / 2C | 10/96 -> | 4 |
| Picnic | 2.0 | D-4D | 1CD-FTV | 05/01 -> | 6 |
| Premio | 2.0 | TD | 2C-T | 01/96 -> 01/98 | 4 |
| Previa | 2.0 | D-4D | 1CD-FTV | 02/01 -> | 6 |
| Rav 4 | 2.0 | D-4D | 1CD-FTV | 05/01 -> | 6 |
| Starlet | 1.5 | D | 1N | 12/89 -> 01/96 | 5 |
| Townace | 2.0 | D | 2C | 10/96 -> | 4 |

| Vauxhall / Opel | | | | | |
|-----------------|-----|---------|-----------------------|----------------|----|
| Arena | 1.9 | D | F8Q | 07/98 -> 11/99 | 2 |
| Arena | 2.5 | TD | S8U | 09/98 -> 11/99 | 2 |
| Astra | 1.7 | D | 17YD | 08/91 -> 03/04 | 2 |
| Astra Mk III | 1.7 | TD | 17DT,TC4EE1, 817253-> | 02/90 -> 02/98 | 9 |
| Astra Mk IV | 1.7 | TD | X17DTL | 02/98 -> 08/00 | 2 |
| Astra Mk IV | 1.7 | DTi 16V | Y17DT | 02/00 -> | 11 |
| Astra Mk IV | 2.0 | DTi | X20DTL, Y20DTL | 03/98 -> 03/04 | 15 |
| Astra Mk IV | 2.0 | DTi | X20DTH, Y20DTH | 08/99 -> 03/04 | 15 |
| Astra Mk V | 1.7 | CDTi | Z17DTL | 03/04 -> | 11 |
| Astra Mk V | 1.7 | CDTi | Z17DTH | 03/04 -> | 11 |

| Vauxhall /Opel (Continued) | | | | | |
|----------------------------|-----|------|----------------------|----------------|----|
| Astra Mk V | 1.9 | CDTi | Z19DT | 09/05 -> | 14 |
| Astra Mk V | 1.9 | CDTi | Z19DTH | 09/04 -> | 47 |
| Astra Mk V | 1.3 | CDTi | Z13DT | 04/05 -> | 48 |
| Astra Van | 1.7 | D | | 08/83 -> 03/04 | 2 |
| Astra Van | 1.7 | D | 17D | 09/88 -> 08/94 | 2 |
| Astra Van | 1.7 | D | 17DR | 09/93 -> 08/94 | 2 |
| Astra Van | 1.7 | TD | X17DTL | 09/94 -> 03/04 | 2 |
| Astra Van | 2.0 | Di | X20DTL | 09/98 -> 03/04 | 15 |
| Brava | 2.2 | D | | 1990 -> 09/96 | 9 |
| Brava | 2.3 | D | | 1988 -> 09/96 | 9 |
| Brava | 2.5 | D | | 03/92 -> | 2 |
| Combo | 1.7 | D | X17D | 09/94 -> 10/01 | 9 |
| Combo | 1.7 | DTi | 17D 4EE;1 X17 D 4EE1 | 09/94 -> 10/01 | 11 |
| Combo | 1.7 | DTi | Y17DT | 08/01 -> | 11 |
| Combo | 1.7 | Di | Y17DTL | 10/01 -> | 2 |
| Combo | 1.7 | CDTi | Z17DTH | 06/04 -> | 11 |
| Combo | 1.3 | CDTi | Z13DT | 10/04 -> | 48 |
| Corsa | 1.5 | D | 15D (4EC1) | 03/93 -> 09/00 | 9 |
| Corsa | 1.5 | TD | 15TD / X15DT (4EC1) | 03/93 -> 09/00 | 9 |
| Corsa | 1.7 | Di | Y17DTL | 09/01 -> | 11 |
| Corsa | 1.7 | DTi | Y17DTL | 09/01 -> | 11 |
| Corsa | 1.7 | TD | 17D / X17D (4EE1) | 03/93 -> 09/00 | 9 |
| Corsa | 1.3 | CDTi | Z13DT | 08/03 -> | 48 |
| Corsa Van | 1.7 | D | 17D, X17D | 09/93 -> | 2 |
| Corsa Van | 1.7 | Di | Y17 DTL | 09/00 -> | 11 |
| Corsa Van | 1.7 | DTi | Y17 DT | 09/00 -> | 11 |
| Corsa Van | 1.3 | CDTi | Z13DT | 01/04 -> | 48 |
| Frontera | 2.2 | DTi | X22DTH | 09/98 -> | 15 |
| Frontera | 2.2 | DTi | Y22DTH | 08/00 -> | 15 |
| Frontera | 2.5 | TD | 25TD | 09/96 -> 08/98 | 12 |
| Meriva | 1.7 | DTi | Y17DT | 09/02 -> | 11 |
| Meriva | 1.3 | CDTi | Z13DT | 11/05 -> | 48 |
| Monterey | 3.1 | TD | 4JG2TC | 05/94 -> | 9 |
| Movano | 1.9 | DTi | F9Q-770 | 12/99 -> | 12 |
| Movano | 2.2 | DTi | G9T-720 | 09/00 -> | 19 |
| Movano | 2.5 | DTi | S8U | 12/99 -> | 2 |
| Movano | 2.5 | DTi | | 10/01 -> | 19 |
| Movano | 2.8 | DTi | S9W | 11/98 -> | 2 |
| Omega | 2.0 | TDi | X20DTH | 02/98 -> | 15 |
| Omega | 2.2 | DTi | Y22DTH | 08/00 -> | 15 |
| Omega | 2.5 | TD | BMW - X25DT OHC-R6 | 04/94 -> | 2 |
| Signum | 1.9 | CDTi | Z19DT | 04/04 -> | 14 |
| Signum | 1.9 | CDTi | Z19DTH | 04/04 -> | 14 |
| Signum | 2.0 | DTi | Y20DTH | 05/03 -> | 15 |
| Signum | 2.2 | DTi | Y20DTR | 05/03 -> | 15 |
| Sintra | 2.2 | DTi | X22DTH | 09/98 -> 04/99 | 15 |
| Tigra | 1.3 | CDTi | Z13DT | 12/04 -> | 48 |
| Vectra | 1.7 | TD | X17TD,TC4EC1 | 09/95 -> 12/96 | 9 |
| Vectra | 1.7 | TD | X17DT | 09/95 -> 12/96 | 15 |
| Vectra | 1.9 | CDTi | Z19DTL | 04/04 -> | 14 |
| Vectra | 1.9 | CDTi | Z19DT | 04/04 -> | 14 |
| Vectra | 1.9 | CDTi | Z19DTH | 04/04 -> | 47 |
| Vectra | 2.0 | Di | X20DTL | 08/99 -> 03/02 | 15 |
| Vectra | 2.0 | DTi | X20DTH | 06/96 -> | 15 |
| Vectra | 2.0 | DTi | Y20DTH | 08/99 -> | 15 |
| Vectra | 2.0 | DTi | | 03/03-> | 17 |
| Vectra | 2.2 | DTi | Y22DTR | 07/00 -> | 15 |
| Vectra | 2.2 | DTi | Y20DTR | 04/02 -> | 15 |
| Vivaro | 1.9 | Di | F9Q-770 | 12/99 -> | 12 |





| Vauxhall (Continued) | | | | | |
|----------------------|-----|------|---------|----------|----|
| Vivaro | 1.9 | DTi | F9Q.760 | 08/01 -> | 12 |
| Vivaro | 2.5 | DTi | G9U 730 | 04/04 -> | 19 |
| Zafira | 1.9 | CDTi | Z19DT | 07/05-> | 14 |
| Zafira | 1.9 | CDTi | Z19DTH | 07/05-> | 47 |
| Zafira | 2.0 | DTi | X20DTL | 05/99 -> | 15 |
| Zafira | 2.2 | DTi | X22DTL | 09/99 -> | 15 |

| VW | | | | | |
|------------|-----|-----|-----------------------------------|----------------|----|
| Beetle | 1.9 | TDi | ALH, AGR | 11/98 -> 09/00 | 12 |
| Beetle | 1.9 | TDi | ATD | 10/00 -> | 12 |
| Beetle | 1.9 | TDi | AXR | 03/03 -> | 12 |
| Bora | 1.9 | SDi | AGP, AQM | 09/98 -> | 12 |
| Bora | 1.9 | TDi | AHF, ALH, AGR, ASV, AJM, AUY, ANU | 10/98 -> 06/01 | 12 |
| Bora | 1.9 | TDi | ARL | 05/00 -> | 12 |
| Bora | 1.9 | TDi | ASZ (Ch No ->172.600000) | 11/01 -> | 12 |
| Bora | 1.9 | TDi | ASZ (Ch No 172.600001->) | 11/01 -> | 12 |
| Bora | 1.9 | TDi | ATD | 11/01 -> | 12 |
| Bora | 1.9 | TDi | AXR | 11/01 -> | 12 |
| Caddy | 1.7 | SDi | AHB | 10/96 -> | 12 |
| Caddy | 1.9 | D | 1Y, AEF | 01/96 -> 02/04 | 2 |
| Caddy | 1.9 | SDi | AEY | 11/95 -> 02/04 | 12 |
| Caddy | 1.9 | TDi | AHU, ALE | 08/96 -> 02/04 | 12 |
| California | 1.9 | TD | ABL | 08/92 -> 03/98 | 2 |
| California | 2.4 | D | AAB | 09/90 -> 04/98 | 2 |
| California | 2.4 | D | AJA | 05/97 -> 03/98 | 2 |
| California | 2.5 | TDi | ACV | 08/95 -> | 12 |
| California | 2.5 | TDi | AJT | 05/98 -> | 12 |
| Caravelle | 1.9 | D | | 09/90 -> 04/96 | 2 |
| Caravelle | 2.5 | TDi | | 08/95 -> | 12 |
| Eurovan | 2.4 | SDi | | 10/92 -> | 2 |
| Eurovan | 2.5 | SDi | | 01/95 -> | 12 |
| Fox | 1.4 | TDi | BNM | 04/05 -> | 12 |
| Golf 3 | 1.9 | D | 1Y | 09/91 -> 08/98 | 2 |
| Golf 3 | 1.9 | TD | AAZ | 09/91 -> 08/98 | 2 |
| Golf 3 | 1.9 | SDi | AEY | 09/93 -> 02/99 | 12 |
| Golf 3 | 1.9 | TDi | 1Z,AHU,ALE | 09/91 -> 07/96 | 12 |
| Golf 3 | 1.9 | TDi | AFN | 09/93 -> 02/99 | 12 |
| Golf 4 | 1.9 | D | 1Y | 10/97 -> 02/99 | 2 |
| Golf 4 | 1.9 | Di | ANU | 01/99 -> 03/04 | 12 |
| Golf 4 | 1.9 | TD | AAZ | 10/97 -> 02/99 | 2 |
| Golf 4 | 1.9 | SDi | AEY | 10/97 -> 02/99 | 12 |
| Golf 4 | 1.9 | SDi | AGP,AQM | 07/97 -> 03/04 | 12 |
| Golf 4 | 1.9 | TDi | AFN,AHF,ASV | 10/97 -> 06/01 | 12 |
| Golf 4 | 1.9 | TDi | AGR,ALH,AHU | 09/97 -> 06/01 | 12 |
| Golf 4 | 1.9 | TDi | ASZ | 01/98 -> 10/01 | 12 |
| Golf 4 | 1.9 | TDi | AJM,AUY | 04/98 -> 06/01 | 12 |
| Golf 4 | 1.9 | TDi | ARL | 05/00 -> 10/01 | 12 |
| Golf 4 | 1.9 | TDi | ATD | 10/00 -> 03/03 | 12 |
| Golf 4 | 1.9 | TDi | AVF | 07/01 -> 03/03 | 12 |
| Golf 4 | 1.9 | TDi | ARL | 11/01 -> 03/03 | 12 |
| Golf 4 | 1.9 | TDi | ASZ | 11/01 -> 03/03 | 12 |
| Golf 4 | 1.9 | TDi | ATD | 11/01 -> 03/03 | 12 |
| Golf 4 | 1.9 | TDi | AXR | 11/01 -> 03/03 | 12 |
| Golf Van | 1.9 | D | | 08/92 -> | 2 |
| LT28 | 2.4 | TD | ACL | 09/92 -> 08/96 | 2 |
| LT28 | 2.5 | SDi | AGX | 05/96 -> | 12 |
| LT28 | 2.5 | TDi | AHD, ACV | 05/96 -> 08/99 | 12 |
| LT28 | 2.5 | TDi | ANJ, AVR | 01/99 -> | 12 |
| LT28 | 2.5 | TDi | APA | 05/99 -> | 12 |

| VW (Continued) | | | | | |
|----------------|-----|--------|---------------|----------------|----|
| LT35 | 2.4 | TD | ACL | 09/92 -> 08/96 | 2 |
| LT35 | 2.5 | SDi | AGX | 05/96 -> 04/01 | 12 |
| LT35 | 2.5 | TDi | AHD | 05/96 -> 08/99 | 12 |
| LT35 | 2.5 | TDi | ANJ, AVR | 01/99 -> | 12 |
| LT35 | 2.5 | TDi | APA | 05/99 -> | 12 |
| LT40 | 2.4 | D | 1S, ACT | 08/89 -> 04/96 | 2 |
| LT40 | 2.4 | TD | 1G | 02/83 -> 04/96 | 2 |
| LT45 | 2.4 | TD | ACL | 09/92 -> 08/96 | 2 |
| LT46 | 2.5 | TDi | ANJ | 01/99 -> | 12 |
| LT46 | 2.5 | TDi | APA | 05/99 -> | 12 |
| Lupo | 1.2 | TDi | ANY | 06/99 -> 11/00 | 12 |
| Lupo | 1.2 | TDi | AYZ | 11/00 -> 10/01 | 12 |
| Lupo | 1.2 | TDi | ANY, AYZ | 11/01 -> | 12 |
| Lupo | 1.4 | TDi | AMF | 01/99 -> | 12 |
| Lupo | 1.7 | SDi | AKU | 10/98 -> | 12 |
| Multivan | 1.9 | TD | ABL | 09/92 -> 04/98 | 2 |
| Multivan | 1.9 | TDi | AXB | 04/03 -> | 12 |
| Multivan | 2.4 | D | AAB | 09/90 -> 04/98 | 2 |
| Multivan | 2.4 | D | AJA | 05/98 -> | 2 |
| Multivan | 2.5 | TDi | ACV | 08/95 -> | 12 |
| Multivan | 2.5 | TDi | AJT | 05/98 -> | 12 |
| Multivan | 2.5 | TDi | AXE | 04/03 -> | 12 |
| Multivan | 2.5 | TDi | AXD | 04/03 -> | 12 |
| Passat | 1.9 | TD | AAZ | 03/90 -> 10/96 | 2 |
| Passat | 1.9 | TDi | 1Z, AHU, AHH | 10/93 -> 12/00 | 12 |
| Passat | 1.9 | TDi | AFN, AVG | 10/96 -> 12/00 | 12 |
| Passat | 1.9 | TDi | AJM, AWX, ATJ | 10/98 -> | 12 |
| Passat | 1.9 | TDi | AVB, ATD | 11/00 -> 10/01 | 12 |
| Passat | 1.9 | TDi | AVF | 01/01 -> 10/01 | 12 |
| Passat | 1.9 | TDi | AVF, AWX | 11/01 -> | 12 |
| Passat | 1.9 | TDi | AVB | 11/01 -> | 12 |
| Passat | 2.5 | TDi | AFB, AKN | 08/98 -> | 16 |
| Phaeton | 5.0 | TDi | AJS | 11/02 -> | 12 |
| Polo | 1.4 | TDi | AMF | 04/99 -> 09/01 | 12 |
| Polo | 1.4 | TDi | AMF, BAY | 10/01 -> | 12 |
| Polo | 1.4 | TDi | ATD, AXR | 10/01 -> | 12 |
| Polo | 1.7 | SDi | AHB | 01/96 -> 12/99 | 12 |
| Polo | 1.7 | SDi | AHG, AKU, AKW | 05/97 -> 09/01 | 12 |
| Polo | 1.7 | SDi | AKW | 11/97 -> | 12 |
| Polo | 1.7 | SDi | AKU | 10/99 -> 04/00 | 12 |
| Polo | 1.9 | D | 1Y, AEF | 12/95 -> 09/01 | 2 |
| Polo | 1.9 | SDi | AEY, AGD | 07/96 -> 09/01 | 12 |
| Polo | 1.9 | SDi | AQM | 09/99 -> 09/01 | 12 |
| Polo | 1.9 | TDi | AHU, ALE | 08/96 -> 08/99 | 12 |
| Polo | 1.9 | TDi | AFN, ATD | 06/98 -> 08/01 | 12 |
| Polo | 1.9 | TDi | ALH, AGR | 09/99 -> 08/01 | 12 |
| Sharan | 1.9 | TDi | 1Z, AHU, ANU | 09/95 -> 10/01 | 12 |
| Sharan | 1.9 | TDi | AFN, AVG | 09/95 -> 04/00 | 12 |
| Sharan | 1.9 | TDi | AUY | 03/00 -> | 12 |
| Sharan | 1.9 | TDi | AHU, ANU | 11/01 -> | 12 |
| Sharan | 1.9 | TDi | ASZ | 11/02 -> | 12 |
| Taro | 2.4 | D | 2L | 02/89 -> 03/97 | 5 |
| Touareg | 2.5 | R5 TDI | BAC | 01/03 -> | 12 |
| Touareg | 5.0 | TDi | | 10/02 -> | 12 |
| Transporter | 1.9 | TD | ABL | 09/92 -> 04/98 | 2 |
| Transporter | 2.4 | D | ACT | 02/92 -> | 2 |
| Transporter | 2.4 | D | AJA | 04/97 -> 04/98 | 2 |
| Transporter | 2.4 | TD | 1G | 08/88 -> 04/96 | 2 |
| Transporter | 2.5 | TDi | ACV | 08/95 -> 04/98 | 12 |

| VW (Continued) | | | | | |
|----------------|-----|-----|---------------|----------------|----|
| Transporter | 2.5 | TDi | AHY, AJT | 05/98 -> | 12 |
| Transporter | 2.5 | TDi | AUF | 11/99 -> | 12 |
| Transporter | 2.5 | TDi | AYC | 09/00 -> | 12 |
| Transporter | 2.5 | TDi | AYY | 10/01 -> | 12 |
| Vento | 1.9 | D | 1Y | 09/91 -> 10/98 | 2 |
| Vento | 1.9 | TD | AAZ | 09/91 -> 10/98 | 2 |
| Vento | 1.9 | SDi | AEY | 01/95 -> 07/97 | 12 |
| Vento | 1.9 | TDi | 1Z | 10/93 -> 07/96 | 12 |
| Vento | 1.9 | TDi | AHU, AFN, ALE | 08/96 -> 10/98 | 12 |

| Volvo | | | | | |
|-------|-----|-----|---------------|----------------|----|
| 360 | 1.8 | D | XUD7 | 09/98 -> | 2 |
| 440 | 1.9 | TD | F8Q, D19T | 01/93 -> 12/96 | 2 |
| 460 | 1.9 | TD | F8Q, D19T | 01/93 -> 08/97 | 2 |
| 850 | 2.5 | TDi | D5252T | 08/95 -> 12/98 | 12 |
| 940 | 2.4 | TDi | D24TIC | 01/94 -> 05/97 | 2 |
| C30 | 2.0 | D | D4204 T | 10/06 -> | 17 |
| S40 | 1.6 | D | | 01-05 -> | 20 |
| S40 | 1.9 | DI | D4192T3 | 03/99->07/00 | 12 |
| S40 | 1.9 | DI | D4192T3/T4 | 07/00->12/03 | 14 |
| S40 | 1.9 | TD | F8Q | 05/96 -> 08/99 | 2 |
| S40 | 1.9 | TDi | D4192T (F8QT) | 09/96 -> 08/99 | 2 |
| S60 | 2.5 | TDi | D5252T | 10/01 -> | 12 |
| S70 | 2.5 | TDi | D5252T | 12/96->11/00 | 12 |
| S80 | 2.5 | TDi | D5252T | 07/98 -> | 12 |
| V40 | 1.9 | DI | D4192 T2 | 03/99->07/00 | 12 |
| V40 | 1.9 | DI | D4192 T3/T4 | 07/00 | 14 |
| V40 | 1.9 | TD | F8Q Kombi | 01/96 -> 08/99 | 2 |
| V40 | 1.9 | TD | D4192T (F8QT) | 09/96 -> 08/99 | 2 |
| V40 | 1.9 | TD | D4192T2 | 03/99 -> 08/99 | 2 |
| V50 | 1.6 | D | | 01/05 -> | 20 |
| V70 | 2.5 | TDi | D5252T | 12/96 -> 11/00 | 12 |

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