

**Engine**

|                                             |                                                                                                        |                                                                                                        |                                                                                                        |                                                                                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| Model                                       | 107.045                                                                                                | 107.025                                                                                                | 126.033                                                                                                | 126.043                                                                                                |
| Sales designation                           | 380 SL                                                                                                 | 380 SLC                                                                                                | 380 SEL                                                                                                | 380 SEC                                                                                                |
| Engine                                      | 116.960<br>116.962                                                                                     | 116.960                                                                                                | 116.961<br>116.963                                                                                     | 116.963                                                                                                |
| Operation                                   | 4-cycle, electronic/mechanical gasoline injection system with airflow sensor (CIS)                     | 4-cycle, electronic/mechanical gasoline injection system with airflow sensor (CIS)                     | 4-cycle, electronic/mechanical gasoline injection system with airflow sensor (CIS)                     | 4-cycle, electronic/mechanical gasoline injection system with airflow sensor (CIS)                     |
| Number of cylinders                         | 8                                                                                                      | 8                                                                                                      | 8                                                                                                      | 8                                                                                                      |
| Cylinder arrangement                        | V-shaped 90°                                                                                           | V-shaped 90°                                                                                           | V-shaped 90°                                                                                           | V-shaped 90°                                                                                           |
| Bore/stroke mm                              | 88/78.9                                                                                                | 88/78.9                                                                                                | 88/78.9                                                                                                | 88/78.9                                                                                                |
| Total effective piston displacement cc      | 3839                                                                                                   | 3839                                                                                                   | 3839                                                                                                   | 3839                                                                                                   |
| Compression ratio                           | 8.3:1                                                                                                  | 8.3:1                                                                                                  | 8.3:1                                                                                                  | 8.3:1                                                                                                  |
| Firing order                                | 1-5-4-8-6-3-7-2                                                                                        | 1-5-4-8-6-3-7-2                                                                                        | 1-5-4-8-6-3-7-2                                                                                        | 1-5-4-8-6-3-7-2                                                                                        |
| Maximum speed rpm                           | 5300 ± 50                                                                                              | 5300 ± 50                                                                                              | 5300 ± 50                                                                                              | 5300 ± 50                                                                                              |
| Engine output (SAE)kW/rpm (SAE net bhp/rpm) | 115.4750<br>(155.4750)                                                                                 | 115.4750<br>(155.4750)                                                                                 | 115.4750<br>(155.4750)                                                                                 | 115.4750<br>(155.4750)                                                                                 |
| Maximum torque Nm/rpm (net lb-ft./rpm)      | 275/2750<br>(196/2750)                                                                                 | 275/2750<br>(196/2750)                                                                                 | 275/2750<br>(196/2750)                                                                                 | 275/2750<br>(196/2750)                                                                                 |
| Crankshaft bearings                         | 5                                                                                                      | 5                                                                                                      | 5                                                                                                      | 5                                                                                                      |
| Valve arrangement                           | Overhead hydraulic lifters                                                                             | Overhead hydraulic lifters                                                                             | Overhead hydraulic lifters                                                                             | Overhead hydraulic lifters                                                                             |
| Camshaft arrangement                        | OHC, one per cylinder bank                                                                             | OHC, one per cylinder bank                                                                             | OHC, one per cylinder bank                                                                             | OHC, one per cylinder bank                                                                             |
| Oil cooling                                 | none                                                                                                   | none                                                                                                   | none                                                                                                   | none                                                                                                   |
| Cooling                                     | Coolant circulating pump, thermostat with bypass line, fan with visco fan clutch, finned tube radiator | Coolant circulating pump, thermostat with bypass line, fan with visco fan clutch, finned tube radiator | Coolant circulating pump, thermostat with bypass line, fan with visco fan clutch, finned tube radiator | Coolant circulating pump, thermostat with bypass line, fan with visco fan clutch, finned tube radiator |
| Lubrication                                 | Pressure lubrication via gear type pump                                                                | Pressure lubrication via gear type pump                                                                | Pressure lubrication via gear type pump                                                                | Pressure lubrication via gear type pump                                                                |
| Oil filter                                  | Full flow filter                                                                                       | Full flow filter                                                                                       | Full flow filter                                                                                       | Full flow filter                                                                                       |
| Air cleaner                                 | Dry paper cartridge                                                                                    | Dry paper cartridge                                                                                    | Dry paper cartridge                                                                                    | Dry paper cartridge                                                                                    |

**Engine**

|                                             |                                                                                                        |                                                                                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| Model                                       | 126.037                                                                                                | 126.044                                                                                                |
| Sales designation                           | 500 SEL                                                                                                | 500SEC                                                                                                 |
| Engine                                      | 116.960<br>116.962                                                                                     | 116.960                                                                                                |
| Operation                                   | 4-cycle, electronic mechanical gasoline injection system with airflow sensor (CIS)                     | 4-cycle, electronic mechanical gasoline injection system with airflow sensor (CIS)                     |
| Number of cylinders                         | 8                                                                                                      | 8                                                                                                      |
| Cylinder arrangement                        | V-shaped 90°                                                                                           | V-shaped 90°                                                                                           |
| Bore stroke mm                              | 96.5 85                                                                                                | 96.5 85                                                                                                |
| Total effective piston displacement cc      | 4973                                                                                                   | 4973                                                                                                   |
| Compression ratio                           | 8.0:1                                                                                                  | 8.0:1                                                                                                  |
| Firing order                                | 1-5-4-8-6-3-7-2                                                                                        | 1-5-4-8-6-3-7-2                                                                                        |
| Maximum speed rpm                           | 5500 ± 50                                                                                              | 5500 ± 50                                                                                              |
| Engine output (SAE)kW rpm (SAE net bhp rpm) | 137 4500<br>(184 4500)                                                                                 | 137 4500<br>(184 4500)                                                                                 |
| Maximum torque Nm rpm (net lb-ft. rpm)      | 343 2000<br>(247 2000)                                                                                 | 343 2000<br>(247 2000)                                                                                 |
| Crankshaft bearings                         | 5                                                                                                      | 5                                                                                                      |
| Valve arrangement                           | Overhead hydraulic lifters                                                                             | Overhead hydraulic lifters                                                                             |
| Camshaft arrangement                        | OHC, one per cylinder bank                                                                             | OHC, one per cylinder bank                                                                             |
| Oil cooling                                 | none                                                                                                   | none                                                                                                   |
| Cooling                                     | Coolant circulating pump, thermostat with bypass line, fan with visco fan clutch, finned tube radiator | Coolant circulating pump, thermostat with bypass line, fan with visco fan clutch, finned tube radiator |
| Lubrication                                 | Pressure lubrication via gear type pump                                                                | Pressure lubrication via gear type pump                                                                |
| Oil filter                                  | Full flow filter                                                                                       | Full flow filter                                                                                       |
| Air cleaner                                 | Dry paper cartridge                                                                                    | Dry paper cartridge                                                                                    |

**Filling capacities**

|                                                           |                    |                  |                  |                    |                  |
|-----------------------------------------------------------|--------------------|------------------|------------------|--------------------|------------------|
| Model                                                     | 107.045            | 107.025          | 126.032          | 126.033            | 126.043          |
| Sales designation                                         | 380 SL             | 380 SLC          | 380 SE           | 380 SEL            | 380 SEC          |
| Engine                                                    | 116.960<br>116.962 | 116.960          | 116.963          | 116.961<br>116.963 | 116.963          |
| Fuel tank reserve approx. l                               | 85.11.5            | 85.11.5          | 90.12.5          | 90.12.5            | 90.12.5          |
| Engine oil initial filling approx. l                      | 8.5                | 8.5              | 8.5              | 8.5                | 8.5              |
| During oil and filter change approx. l                    | 8.0                | 8.0              | 8.0              | 8.0                | 8.0              |
| Marks on dipstick max./min. approx. l                     | 7.5.5.5            | 7.5.5.5          | 7.5.5.5          | 7.5.5.5            | 7.5.5.5          |
| Cooling system with heater approx. l                      | 12.5               | 12.5             | 12.5             | 12.5               | 12.5             |
| Coolant pump                                              | maintenance-free   | maintenance-free | maintenance-free | maintenance-free   | maintenance-free |
| Brake system approx. l                                    | 0.53               | 0.53             | 0.53             | 0.53               | 0.53             |
| Automatic transmission approx. l initial fill: oil change | 7.3.6.2            | 7.3.6.2          | 7.1.6.2          | 7.3.6.2            | 7.3.6.2          |
| Rear axle hypoid gear oil SAE 90 approx. l                | 1.3                | 1.3              | 1.3              | 1.3                | 1.3              |
| Power steering approx. l                                  | 1.4                | 1.4              | 1.2              | 1.2                | 1.2              |

**Filling capacities**

|                                                           |                  |                  |
|-----------------------------------------------------------|------------------|------------------|
| Model                                                     | 126.037          | 126.044          |
| Sales designation                                         | 500 SEL          | 500 SEC          |
| Engine                                                    | 117.963          | 117.963          |
| Fuel tank reserve approx. l                               | 90.12.5          | 90.12.5          |
| Engine oil initial filling approx. l                      | 8.5              | 8.5              |
| During oil and filter change approx. l                    | 8.0              | 8.0              |
| Marks on dipstick max./min. approx. l                     | 7.5.5.5          | 7.5.5.5          |
| Cooling system with heater approx. l                      | 13.0             | 13.0             |
| Coolant pump                                              | maintenance-free | maintenance-free |
| Brake system approx. l                                    | 0.53             | 0.53             |
| Automatic transmission approx. l initial fill: oil change | 8.6.7.7          | 8.6.7.7          |
| Rear axle hypoid gear oil SAE 90 approx. l                | 1.3              | 1.3              |
| Power steering approx. l                                  | 1.2              | 1.2              |

**Electrical system**

|                   |                     |                    |                    |                      |                    |                    |
|-------------------|---------------------|--------------------|--------------------|----------------------|--------------------|--------------------|
| Model             |                     | 107.045            | 107.025            | 126.032              | 126.033            | 126.043            |
| Sales designation |                     | 380 SL             | 380 SLC            | 380 SE               | 380 SEL            | 380 SEC            |
| Engine            |                     | 116.960<br>116.962 | 116.960            | 116.963              | 116.961<br>116.963 | 116.963            |
| Battery           | Voltage<br>Capacity | 12 V<br>88 Ah      | 12 V<br>88 Ah      | 12 V<br>66 Ah        | 12 V<br>66 Ah      | 12 V<br>66 Ah      |
| Starter           | Bosch               | GF 12 V<br>1.5 kW  | GF 12 V<br>1.5 kW  | GF 12 V<br>1.5 kW    | GF 12 V<br>1.5 kW  | GF 12 V<br>1.5 kW  |
| Alternator        |                     | KI 14 V<br>70 A 20 | KI 14 V<br>70 A 20 | N1 - 14 V<br>80 A 19 | KI 14 V<br>70 A 20 | KI 14 V<br>70 A 20 |

**Electrical system**

|                   |                     |                      |                      |
|-------------------|---------------------|----------------------|----------------------|
| Model             |                     | 126.037              | 126.044              |
| Sales designation |                     | 500 SEL              | 500 SEC              |
| Engine            |                     | 117.963              | 117.963              |
| Battery           | Voltage<br>Capacity | 12 V<br>66 Ah        | 12 V<br>66 Ah        |
| Starter           | Bosch               | GF 12 V<br>1.5 kW    | GF 12 V<br>1.5 kW    |
| Alternator        |                     | N1 - 14 V<br>80 A 19 | N1 - 14 V<br>80 A 19 |