

TECHNICAL INFO

CAR MANUFACTURER APPROVALS AND SPECIFICATIONS

BMW:

BMW LL98: Longlife-98

Special long-life engine oil, approved by BMW. Also meets ACEA A3/B3, API SJ/CD, EC SAE 5W-40. Usually required for BMWs manufactured before MY 2002.

BMW LL01: Longlife-01

Special BMW approval for fully synthetic long-life oil. Product meets ACEA A3/B3 and API: SJ/CD EC-II. Usually required for BMWs built after MY 2002. Can also be used where a BMW Longlife-98 oil is recommended.

BMW LL04: Longlife-04

Special BMW approval for fully synthetic long-life oil. Viscosities are SAE 0W-30, 0W-40, 5W-30 and 5W-40. Usually required for BMWs equipped with a diesel particulate filter (DPF). Can also be used where a BMW Longlife-98 or BMW Longlife-01 oil is recommended. Those lubricants are only recommended for use in Europe and Liechtenstein where the fuel specs are different.

FIAT:

These qualifications define the characteristics to be complied with by the lubricants used in engines with Otto and Diesel cycle for the first time of filling and during service. The standard is formed of a series of tests in the laboratory and on the engine to assess the performance level of lubricants. The laboratory tests qualify the lubricant evaluating the viscosity, cold yield value, tendency to produce foam, corrosion on copper reed, behavior with rubbers and resistance to oxidation. The engine tests assess the performance levels of lubricants in terms of sticking rings, deposits on pistons, wear and also oil consumption of certain diesel and petrol engines which are the most representative of Fiat Auto's most advanced technologies.

Fiat 9.55535-G1

Qualification for gasoline engine lubricants granting fuel economy and extended drain.

Fiat 9.55535-G2

Qualification for gasoline engine lubricants with standard characteristics.

Fiat 9.55535-H2

Qualification for gasoline engine lubricants, granting high performances and high viscosity at high temperatures. OEM recommended product also meets API: SM, ACEA A3-04/B3-04.

Fiat 9.55535-H3

Qualification for gasoline engine lubricants granting very high performances.

Fiat 9.55535-D2

Qualification for Diesel engine lubricants with standard characteristics.

Fiat 9.55535-M2

Qualification for lubricants with extended drain. OEM recommended product also meets ACEA B3-04/B4-04, GM-LL-B-025.

Fiat 9.55535-N2

Qualification for lubricants with a very good characteristics for turbocharged engines, Diesel and gasoline, with extended drain. Minimum requirement is ACEA A3/B4-04.

Fiat 9.55535-S1

Qualification for Diesel and gasoline engine, with exhaust treatment system, lubricants, granting fuel economy and extended drain. OEM recommended product is also approved to ACEA C2.

Fiat 9.55535-S2

Qualification for Diesel and gasoline engine, with exhaust treatment system, lubricants, with extended drain. OEM recommended product also meets: ACEA C3-04, MB 229.51 and API: SM/CF.

FORD:

Ford M2C913-A

Engine oil, Initial and service fill, SAE 5W-30. This specification meets the ILSAC GF-2 and ACEA A1-98 and B1-98 and additional Ford requirements.

Ford M2C913-B

The Ford M2C913-B specification is released in Europe for initial fill engine oils used for lubrication of spark ignition engines using gasoline and for compression ignition engines using diesel fuels. The specification is also used to define engine oils for servicing Ford engines where applicable. The oil shall meet all the requirements of the ILSAC GF-2 and GF-3 specification, the ACEA A1-98 and B1-98 specification and additional Ford requirements.

Ford M2C913-C

Fully backwards compatible and is strongly recommended for all applications that currently require the specification Ford M2C913-B. The new engine oil provides various benefits to the customer such as improved fuel economy benefits and high robustness to biodiesel fuels.

Ford M2C917-A

Viscosity SAE 5W40 engine oil for pump injector diesel engines.

Ford M2C934-A

Extended drain engine oil for vehicles equipped with diesel particulate filter (DPF).

Ford 8U7J-19G518-BA

Special gear oil for Ford Kuga's transferbox.

Ford 8U7J-8708687-AA

Special gear oil for Haldex clutches.

Ford M2C104-A

SAE 90 mechanical gear oil with EP additive and friction modifier.

Ford M2C175-A

API GL-4 grade, SAE 80W90 gear oil for Ford Type N transmissions made before 1990.

Ford M2C186-A

Friction modified transmission oil for Ford MT75 transmissions.

Ford M2C192-A

SAE 75W140 grade hypoid gear oil for regular and limited slip rear differentials.

Ford M2C192-A + M2C118-A

Synthetic hypoid gear oil with friction modifier.

Ford M2C197-A

Hypoid differential oil with EP properties.

Ford M2C197-A + M2C118-A

Special formula Trac-Lok for rear axles.

Ford M2C200-B

Synthetic, SAE 75W90 grade, API GL-4 or GL-5 level hypoid gear oil with extreme pressure (EP) properties.

Ford M2C200-C

Polyalphaolefine (PAO) based, synthetic gear oils.

Ford M2C200-D

Polyalphaolefine (PAO) based, synthetic gear oil with viscosity modifier and extreme pressure (EP) additive.

Ford M2C201-A

Thermally stable hypoid gear oil for front differentials. Meets MIL-L-2105D and API GL-5

Ford M2C918-A

SAE 75W90 grade synthetic gear oil for rear differentials.

Ford M2C94-A

SAE 80W90 or 80W grade multifunction hypoid gear oil. Meets API GL-5 and MIL-L-2105C.

Ford N052145 VX00

VW G 052 145 equivalent Ford specification. Fully synthetic, meets API GL-4 and SAE 75W90.

Ford Mercon

Automatic transmission fluid specification for use in Ford automatic transmissions.

Forc Mercon V

Ford Mercon V specification. An automatic transmission fluid with improved protection against rust, corrosion, deposits and wear. It improves low-temperature shifting and guards against transmission shudder. Mercon V is fully backwards compatible with Mercon.

GENERAL MOTORS**GM-LL-A-025**

Special GM approval for long-life engine oil for gasoline engines. Viscosity is SAE 0W-30. Product meets ACEA A3/B3. Drain interval can be as long as 30 000 kms.

GM-LL-B-025

Special GM approval for long-life engine oil for diesel engines. Viscosity is SAE 5W-40. Product meets ACEA A3/B3/B4. Drain interval can be as long as 50 000 kms.

Dexron Type A, Suffix A

Specification introduced in 1957. It requires the oil to meet certain limits regarding its kinematic viscosity.

Dexron IID

General Motors Dexron®-IID Specification. ATF issued in 1975. Contained ATF cooler corrosion requirements not listed in Dexron® - II.

Dexron IIE

General Motors Specification Dexron®-IIE. ATF issued in 1991 requiring improved low temperature performance compared to Dexron®-IID, 20 000 cP at minus 40 °C.

Dexron IIIF

GM specification for Automatic transmission oil introduced in 1994. Successor of Dexron IID and IIE.

Dexron IIIG

Successor of Dexron III(F) automatic transmission fluid. This has the same low temperature characteristics as Dexron IIE, but with modifications to anti-oxidancy and friction material. Introduced in 1997.

Dexron IIIH

Dexron III licence H was introduced in June 2003 to replace the Dexron III G fluid. It has an oxidatively stable base oil (group 2 or group 3). Oils according to this specification have longer maintenance of friction properties and anti-shudder properties, better foam control and a longer fluid life.

Dexron VI

Specification introduced in 2005 to replace Dexron IIIH. This specification requires better stay-in-grade properties, oxidative stability and anti-foam characteristics. Oils meeting this specification can be used with extended drain intervals and are energy conserving.

PEUGEOT-CITROËN (PSA GROUP)

The French PSA group issued a set of oil specifications in 2009 in order to exercise greater control over the motor oils used in their vehicles. All specifications are based on ACEA specs but also require further conditions to be met.

PSA B71 2290

Peugeot/Citroën engine oil specification introduced in 2009. B71 2290 is a low-SAPS oil intended for engines with diesel particulate filters and with Euro 5 emission standards. General specifications are: ACEA C2 or C3 with additional PSA tests.

PSA B71 2294

Peugeot/Citroën engine oil specification introduced in 2009. Main specification: ACEA A3/B4 with additional PSA tests.

PSA B71 2295

Peugeot/Citroën engine oil standard for engine before MY 1998. General specification: ACEA A2/B2.

PSA B71 2296

Peugeot/Citroën engine oil specification introduced in 2009. General specifications: ACEA A3/B4 + additional PSA tests.

PSA B71 2330

API GL-4 level gear oils with SAE 75W80 viscosity. Suitable for transaxles.

PSA 9730 A8

Special gear oil for the C550 transmissions used in Citroen C1 and Peugeot 107.

PSA B71 2315

API GL-4 level, SAE 75W80 viscosity gear oil made of API Group III base oils.

RENAULT

Renault RN0700

Renault engine oil specification; introduced in 2007 upon introduction of the Laguna III. General requirements: ACEA A3/B4 or ACEA A5/B5.

Renault RN0710

Renault engine oil specification; introduced in 2007 upon introduction of the Laguna III. General requirements: ACEA A3/B4 + additional Renault demands.

Renault RN 0720

Renault engine oil specification; introduced in 2007 upon introduction of the Laguna III. General requirements: ACEA C3 + additional Renault demands. RN0720 is designed for use in the latest

Tranself NFJ (aka Tranself TRJ)

API GL-5 level mechanical gear oil for Renault J series transmissions built with bronze synchronizer rings.

Tranself NFP (aka Tranself TRX)

API GL-5 level, high performance gear oils for heavy duty transmissions. Excellent shear stability and anti-foam properties.

Tranself TRP

API GL-5 level mechanical gear oil for Renault PK6 series transmissions built with bronze synchronizer rings.

Tranself TRT

API GL-5 level mechanical gear oil for Renault JR5 series transmissions built with bronze synchronizer rings.

VOLKSWAGEN:

Volkswagen introduced its own specifications in mid '90s. Since then this classification system is the starting point for selecting the technically suitable products for all vehicles manufactured by the VW group (Volkswagen, Audi, Seat, Skoda).

VW 500.00

Volkswagen specification for multigrade engine oils for gasoline engines with SAE 5W-X/10W-X viscosity. This is an "old" oil specification and is applicable to engines built before model year 2000 (up to August 1999). Oils with an approval made post March 1997 were given an alternative, later VW specification.

VW 501.01

Conventional motor oils suitable for some VW engines built before MY 2000. This is an "old" oil specification and is applicable to engines built before model year 2000 (up to August 1999). Oils with an approval made post March 1997 were given an alternative, later VW specification.

VW 502.00

Oil for gasoline engines. Successor of VW 501.01 and VW 500.00 specification. Recommended for those which are subject to arduous conditions. It must not be used for any engines with variable service intervals or any which are referred to under other specifications.

VW 503.00

Long-life gasoline engine oil for VW cars with WIV (system for longer service intervals). Also meets ACEA A1, SAE 0W-30 or 5W-30 specification.

VW 503.01

This specification is specifically for Audi RS4, Audi TT, S3 and Audi A8 6.0 V12 models with outputs of more than 180bhp, running with variable service intervals (30,000km or 2 years). Now superseded by the VW 504.00 specification.

VW 504.00

The VW 504 00 specification supercedes the VW 503 00 and VW 503.01 specifications. VW 504 00 oils are suitable for engines meeting the demands of Euro IV emissions standards.

VW 505.00

Passenger car diesel engine oil specification, minimum performance level CCMC PD-2. Lists viscosities SAE 5W-50, 10W-50/60, 15W-40/50, 20W-40/50 requiring 13% max. evaporation loss and SAE 5W-30/40, 10W-30/40 requiring 15% max. evaporation loss.

VW 505.01

Special engine oil for VW turbodiesel engines with pump-injector-unit and for the V8 Commonrail turbodiesel engines. Meets ACEA B4 SAE 5W-40 specification.

VW 506.00

These oils are suitable for diesel engines with extended service intervals of up to 50,000km / 2 years. Not for use on engines with a single injector pump. Oil change is indicated by the electronic service indicator. Viscosity is SAE 0W30.

VW 506.01

These oils are especially for "Pumpe-Düse" (unit injector or "PD" engines) running on extended service intervals (30,000 - 50,000km / 24 months). Oil change is indicated by the electronic service indicator.

VW 507.00

Low SAPS oils suitable for Euro 4 engines and almost all VAG diesel engines from 2000 onwards with extended service intervals, unitary injector pumps and also Pumpe-Düse ("PD") engines. Excludes V10, R5 engines and VW Commercial vehicles without fitted DPF (diesel particulate filters) – these must use a 506 01 specification oil.

VW 508.00

This standard is not yet released. It will probably require a low SAPS oil with energy conserving properties.

VW G 009 317

Gear oil for mechanical and automatic 6 gear transmissions.

VW G 052 145 A2

Special synthetic gear oil with SAE 75W90 viscosity for front and rear differentials, including limited slip differentials.

VW G 052 162 A2

Special ATF with viscosity modifier. Suitable for 4 and 5 gear ZF automatic transmissions. Not suitable for 6 gear transmissions.

VW G 052 171

SAE 70W75 viscosity gear oil.

VW G 052 171 A2

Special gear oil designed for the manual transmissions of cars with transverse engines.

VW G 052 175

Special working fluid for Haldex clutches. Developed by Haldex and Statoil.

VW G 052 178

Gear oil with SAE 75W viscosity.

VW G 052 180 A2

Special gear oil for Audi Multitronic transmissions.

VW G 052 190 A2

Special VW gear oil for Multitronic CVT transmissions.

VW G 052 726

Monograde gear oil with SAE 75W viscosity.

VW G 052 798

SAE 70W75 viscosity gear oil.

VW G 052 911

Audi specification for transmissions used with longitudinal engine configurations. Products meeting this specification are of SAE 75W90 viscosity and also meet API GL-5 criteria.

VW G 052 990

Special ATF for automatic transmissions combined with differentials.

VW G 055 005

Special ATF for VW automatic transmissions and transaxles.

VW G 055 145

Transmission oil with 3% Sturaco additive.

VW G 055 162

Special ATF for VW automatic transmissions and transaxles.

VW G 055 175 A2

Special working fluid for Haldex clutches. Developed by Haldex and Statoil.