

# Quality AUTOMOTIVE Products™



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**Q.A.P. Engine Oil** is formulated to exceed the performance requirements of the latest ILSAC GF-6A specification, which defines an oil with superior oxidation resistance and fuel economy performance compared to the previous GF-5 category.

It provides excellent protection against LSPI, attending to the durability demands of the latest engine designs. The market-leading wear performance of the earlier **Q.A.P. Engine Oil** grades has been enhanced with the transition, providing additional protection against corrosive and abrasive wear more prevalent in newer engine designs.

**Q.A.P. Engine Oil** is suitable for most engine types and provides optimum protection for all modes of operation, from stop-and-go city driving, short trips in cold weather or towing a trailer in the summer months.

## Features & Benefits

- Combats corrosion & moisture
- Outstanding resistance to viscosity breakdown
- Maximum wear protection to vital engine components
- Improved oxidation resistance
- Excellent low-speed pre-ignition (LSPI) protection
- Enhanced oil durability continuously maintains the fuel economy properties over the oil's service life
- Increased chain and valvetrain wear protection over GF-5/SN PLUS formulations

## Specifications

✓ Meets Requirements • Approved \* Backwards compatible

Specification	5W-20	5W-30	10W-30
API SP*	•	•	•
API SN Plus/SN*	✓	✓	✓
ILSAC GF-6A*	•	•	•
ILSAC GF-5	✓	✓	✓
Ford WSS-M2C960-A1	✓	-	-
Ford WSS-M2C961-A1	-	✓	-
Ford WSS-M2C945-B1*	✓	-	-
Ford WSS-M2C946-B1*	-	✓	-

Supporting data available to demonstrate acceptable performance. Check with your sales associate for latest product approvals. Please note, these are typical performance indicators and can change without notice. This data sheet replaces previous versions prior to 16/06/2022

## Typical Results

Test Method	5W-20	5W-30	10W-30
<b>SAE GRADE</b>	5W-20	5W-30	10W-30
<b>VISCOSITY (D445)</b>			
cSt @ 40°C	46.2	58.0	59.0
cSt @ 100°C	8.2	10.0	9.7
<b>VISCOSITY INDEX (D2270)</b>	153	159	149
<b>DENSITY @ 15°C</b> (D4052), kg/L	0.85	0.85	0.85
<b>POUR POINT (D5949), °C</b>	-48	-47	-45
<b>FLASH POINT (D7094), °C</b>	203	204	205
<b>COLD CRANKING VISCOSITY</b> (D5293), cP	4208 @ -30°C	4484 @ -30°C	3666 @ -25°C
<b>TOTAL BASE NUMBER (D2896),</b> mg KOH/g	7.0	7.0	7.0
<b>MRV VISCOSITY</b> (D4684), cP	14,500 @ -35°C	19,100 @ -35°C	11,500 @ -30°C
<b>HTHS VISCOSITY</b> (D4683), cP @ 150°C	2.64	3.05	2.95

## Sizes & Order Codes

Size	5W-20	5W-30	10W-30
946 mL (1 US qt)	FX0004115	FX0004215	FX0004315
5 L (1.3 US Gal)	FX0004130	FX0004230	FX0004330
205 L (54.2 US Gal)	FX0004150	FX0004250	FX0004350

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# EUROPEAN PERFORMANCE ENGINE OIL



**Q.A.P. European Performance Oil** is a sophisticated, fully synthetic formula coupled with the latest additive technology to deliver the performance and protection your engine demands. This oil is formulated to keep your engine as close to factory cleanliness as possible.

It has excellent cold-start protection and quick circulation, creating a protective film on vital engine components. When used in extremely high-temperature operating conditions, this protection reduces wear, resists oxidation, and retains viscosity stability to extend engine service life.

**Q.A.P. European Performance Oil** has high levels of anti-wear and anti-corrosion inhibitors to ensure premium protection throughout the life of the oil, which can be used to the maximum oil-drain intervals recommended by manufacturers.

This product meets European manufacturers' motor oil performance requirements requiring a mid/low SAPS engine oil. It is compatible with Diesel Particulate Filters (DPF's) or gasoline catalytic converters. Hot or cold, on or off the road, this is a high-performance lubricant for high-performance vehicles.

## Features & Benefits

- Full synthetic
- Mid Sulfated Ash, Phosphorus and Sulfur (SAPS)
- Robust engine performance
- Exceptional wear and sludge protection
- Excellent piston cleanliness
- Excellent soot control

## Specifications

✓ Meets Requirements ◆ Recommend for use in

Specifications	5W-40
API SN/CF	✓
VW 505.00	◆
VW 505.01	◆
MB 229.31	◆
MB 229.51	◆
BMW LL-04	◆

Supporting data available to demonstrate acceptable performance. Check with your sales associate for latest product approvals. Please note, these are typical performance indicators and can change without notice. This data sheet replaces previous versions prior to 06-14-2022.

## Typical Results

Test Method	5W-40
SAE GRADE	5W-40
VISCOSITY (D445) cSt @ 40°C cSt @ 100°C	79.6 13.2
VISCOSITY INDEX (D2270)	168
DENSITY @ 15°C (D4052), kg/L	0.85
POUR POINT (D97), °C	-36
FLASH POINT (D93), °C	205
COLD CRANKING VISCOSITY (D5293), cP	6219 @ -30°C
TOTAL BASE NUMBER (D2896), mg KOH/g	7.3

## Sizes & Order Codes

Size	5W-40
946 mL (1 US Qt)	FX0001606
60 L (15.85 US Gal)	FX0001645
205 L (54.2 US Gal)	FX0001650

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# SYNTHETIC ENGINE OIL



**Q.A.P. Synthetic Engine Oil** is designed to meet the most severe demands of modern motoring. New engine hardware, particularly the latest turbocharged direct-injection engines, increases thermal and loading stress on your engine oil. This formula aims to cope with the increased temperatures and pressures, providing long-lasting protection and operation throughout the life of the oil.

It contains unique film strength additives to enhance the protective barrier between critical engine components. It is also designed to resist the oxidative break-down and shearing loss associated with operation at higher temperatures, maintaining a strong and durable film for maximum engine protection.

**Q.A.P. Synthetic Engine Oil** exceeds the latest performance requirements of ILSAC GF-6 and is fully approved against the latest GM dexos1™ Gen 3 specification for our 0W-20 and 5W-30 grades.

This oil is particularly robust in low-speed pre-ignition (LSPI) and turbocharger protection, making it suitable for the latest TGD designs and all severe-service applications.

## Features & Benefits

- Outstanding LSPI protection
- Optimum cold-weather performance & start-up protection
- Superior wear protection for all engine types
- Unique high film strength technology for modern motoring
- Exceptional oxidation resistance for severe-service & turbocharged applications
- Extended oil life

## Specifications

✓ Meets Requirements • Approved \* Backwards compatible

Specifications	0W-16	0W-20 dexos®	5W-20	5W-30 dexos®	10W-30
API SP*	•	•	•	•	•
API SN Plus/SN*	✓	✓	✓	✓	✓
ILSAC GF-6A*	-	•	•	•	•
ILSAC GF-6B	•	-	-	-	-
Chrysler MS-6395	-	✓	-	✓	-
Ford WSS-M2C960-A1	-	-	✓	-	-
Ford WSS-M2C961-A1	-	-	-	✓	-
Ford WSS-M2C962-A1	-	✓	-	-	-
Ford WSS-M2C945-B1*	-	-	✓	-	-
Ford WSS-M2C946-B1*	-	-	-	✓	-
Ford WSS-M2C947-B1*	-	✓	-	-	-
GM dexos1™ Gen 3*	-	•	-	•	-

Supporting data available to demonstrate acceptable performance. Check with your sales associate for latest product approvals. Please note, these are typical performance indicators and can change without notice. This data sheet replaces previous versions prior to 14-06-2022.

## Typical Results

Test Method	0W-16	0W-20 dexos®	5W-20	5W-30 dexos®	10W-30
SAE GRADE	0W-16	0W-20	5W-20	5W-30	10W-30
VISCOSITY (D445) cSt @ 40°C cSt @ 100°C	37.6 7.3	43.7 8.2	47.8 8.5	60.4 10.9	60.7 9.9
VISCOSITY INDEX (D2270)	163	165	156	174	148
POUR POINT, °C (D5949) (D97)	-49 -	- -42	-47 -	- -42	-45 -
FLASH POINT (D93), °C	205	203	209	204	205
CCS VISCOSITY (D5293), cP	4880 @ -35°C	5250 @ -35°C	4160 @ -30°C	3680 @ -30°C	4045 @ -25°C
TBN (D2896), mg KOH/g	7.0	8.0	7.0	8.0	7.0
MRV VISCOSITY (D4684), cP	12,800 @ -40°C	19,000 @ -40°C	11,000 @ -35°C	14,500 @ -35°C	9400 @ -30°C
HTHS VISCOSITY (D4683), cP @ 150°C	2.33	2.60	2.68	3.20	3.01

## Sizes & Order Codes

Size	0W-16	0W-20 dexos®	5W-20	5W-30 dexos®	10W-30
6 x 946 mL (1 U.S. Qt)	FX0004806	FX0004606	FX0004506	FX0004706	FX0004406
4 x 5 L (1.32 U.S. Gal)	FX0004830	FX0004630	FX0004530	FX0004730	-
60 L (15.85 U.S. Gal)	-	FX0004645	FX0004545	FX0004745	-
205 L (54.2 U.S. Gal)	-	FX0004650	FX0004550	FX0004750	FX0004450

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# PREMIUM CK-4 DIESEL OIL



**Bestbuy Pro CK-4** is next-generation oil formulated to exceed compliance levels set forth by the EPA for 2017 and forward diesel engines.

It is designed to provide quantifiable improvements in emissions control, wear protection, TBN retention, shear stability, fuel economy, oxidation resistance and enhanced drain intervals with regular used oil analysis.

**Bestbuy Pro CK-4** is backward compatible with API CJ-4, CI-4 Plus, and CH-4 performance claims, making it ideal for large, small and mixed fleet operations where multiple service categories are required.

## Features & Benefits

- Up to 10% better oxidation protection than CJ-4
- Up to 14% less wear than CJ-4 oils
- Up to 23% better contamination handling
- Up to 0.89% better fuel economy
- Improved shear stability
- Prevents piston deposits
- 17 million miles of on-road testing and 23,000 hours off-road
- Quantifiable increased wear protection for Cams, Tappets, Rings, Cross Heads, Injector Screws and more

## Specifications

✓ Meets Requirements • Approved/Licensed \* Backwards Compatible

Specification/claims:	Bestbuy Pro Premium Synthetic Blend 10W-30 CK-4	Bestbuy Pro Premium 15W-40 CK-4
API CK-4, CJ-4, CI-4 PLUS*	•	•
Cummins CES 20086*	•	•
Detroit Diesel DFS 93K222*	•	•
MACK EOS-4.5*	•	•
VOLVO VDS-4.5*	•	•
Renault VI RLD-3*	•	•
FORD WSS-M2C171-F1*	✓	✓
CAT ECF-3*	✓	✓
ACEA E7, E9	✓	✓
MB 228.31	✓	✓
MAN 3275, 3575	✓	✓
MTU Category 2.1	✓	✓
Deutz DQC III-10 LA	✓	✓
JASO DH-2	✓	✓

Test Method	Bestbuy Pro Premium Synthetic Blend 10W-30 CK-4	Bestbuy Pro Premium 15W-40 CK-4
<b>VISCOSITY (D445)</b> cSt @ 40°C cSt @ 100°C	81.9 11.7	117.5 15.3
<b>VISCOSITY INDEX (D2270)</b>	136	136
<b>DENSITY @ 15°C (D4052), kg/L</b>	0.87	0.87
<b>POUR POINT (D97), °C</b>	-38	-32
<b>FLASH POINT (D93), °C</b>	208	211
<b>TOTAL BASE NUMBER (D2896), mgKOH/g</b>	10	10
<b>HTHS @150°C (D4683), cP</b>	-	4.3
<b>CCS VISCOSITY (D5293), cP</b>	6300 @-25°C	4850 @-20°C

## Size & Order Codes

Size	Bestbuy Premium CK-4 Syn Blend Diesel 10W-30	Bestbuy Premium CK-4 Diesel 15W-40
946 mL (1 US Qt)	FX0003215	FX0003415
5 L (1.32 US Gal)	FX0003230	FX0003430
18.9 L (5 US Gal)	FX0003240	FX0003440
60 L (15.85 US Gal)	-	FX0003445
205 L (54.2 US Gal)	FX0003250	FX0003450

Supporting data available to demonstrate acceptable performance. Check with your sales associate for latest product approvals. Please note, these are typical performance indicators and can change without notice. This data sheet replaces previous versions prior to 12/09/2022

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# PREMIUM SYNTHETIC 5W-40 CK-4 DIESEL OIL



**Bestbuy Pro Synthetic 5W-40 CK-4** is formulated to meet the requirements for API CK-4/SN and the latest 2017 EPA compliant low-emission diesel engines. Compatible with diesel exhaust after-treatment systems, including Diesel Particulate Filters (DPF), Diesel Oxidation Catalysts (DOC) and Selective Catalytic Reduction (SCR).

It has an exceptional cold-cranking and cold-pumping ability. Performance in these areas enables faster startup and wear protection when the engine is most vulnerable. Its advanced formulation is designed to deliver exceptional protection for demanding operating conditions, including industries such as mining, construction, forestry, trucking operations, and much more.

**Bestbuy Pro Synthetic 5W-40 CK-4** is backwards compatible with API CJ-4, CI-4+, CI-4 and CH-4 performance claims under current licensing guidelines.

## Features & Benefits

- Full synthetic
- Excellent cold weather performance
- Better oxidation & wear protection than CJ-4
- Protection from filter plugging and sludge buildup

## Specifications

✓ Meets Requirements • Approved \* Backwards compatible

Specifications	5W-40
API CK-4*	•
API SN*	•
CAT ECF-3*	✓
Chrysler MS-10902	✓
Cummins CES 20086*	✓
Detroit Diesel DFS 93K222*	✓
Deutz III-10 LA	✓
Mack EOS-4.5*	✓
Volvo VDS-4.5*	✓
Renault VI RLD-3*	✓
MB 228.31	✓
MTU 2.1	✓
Ford WSS-M2C171-F1*	✓
MAN 3575	✓

## Typical Results

Test Method	5W-40
<b>SAE GRADE</b>	5W-40
<b>VISCOSITY (D445)</b> cSt @ 40°C cSt @ 100°C	93.3 15.2
<b>VISCOSITY INDEX (D2270)</b>	172
<b>DENSITY @ 15°C (D4052), kg/L</b>	0.86
<b>POUR POINT (D97), °C</b>	-45
<b>FLASH POINT (D92), °C</b>	224
<b>COLD CRANKING VISCOSITY (D5293), cP</b>	6300 @ -30°C
<b>TOTAL BASE NUMBER (D2896), mg KOH/g</b>	10.1
<b>HTHS VISCOSITY @ 150°C (D4683), cP</b>	4.1
<b>ZINC (D4951), ppm</b>	1200
<b>SULFATED ASH (D874), % m/m</b>	<1.0

## Sizes & Order Codes

Size	5W-40
5 L (1.32 US Gal)	FX0004030
18.9 L (5.0 US Gal)	FX0004040
205 L (54.2 US Gal)	FX0004050

Supporting data available to demonstrate acceptable performance. Check with your sales associate for latest product approvals. Please note, these are typical performance indicators and can change without notice. This data sheet replaces previous versions prior to 06-14-2022.

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# PREMIUM SYNTHETIC BLEND 10W-30 FA-4 DIESEL OIL



**BESTBUY PRO SYNTHETIC BLEND FA-4** represents the latest technology and heavy-duty diesel engine oil advancements. FA-4-compliant engines were designed to run on low viscosity oils to provide optimum fuel efficiency and environmental benefits.

**BESTBUY PRO SYNTHETIC BLEND FA-4** oil contains low sulfated ash, phosphorus and sulfur (SAPS), making it compatible with after-treatment systems such as Diesel Particulate Filters (DPF).

**BESTBUY PRO SYNTHETIC BLEND FA-4** oil helps to deliver up to a 1.2% increase in fuel economy compared to 15w-40 oils with no compromise to engine durability. Increased oxidation reduction, wear control, viscosity retention, oil economy and extended drain intervals with regular used oil analysis, are just a few of the benefits you will experience with **BESTBUY PRO SYNTHETIC BLEND FA-4**.

**BESTBUY PRO SYNTHETIC BLEND FA-4** oil is NOT interchangeable or backward compatible with API CK-4, CJ-4, CI Plus or CH-4 oils unless stated by the OEM.

## Features & Benefits

- Extended drain capability with used oil monitoring and diagnostics
- Inhibits chemical attack on non-ferrous metals
- 17 Million Miles of on-road testing
- 23,000 hours of off-road testing
- Quantifiable increased wear protection for Cams, Tappets, Rings, Cross Heads, Injector Screws and more
- Improved deposit control, shear stability and viscosity retention
- Up to 23% better contamination handling
- Up to 57% improvements in wear protection

## Specifications

- Approved ✓ Meets Requirements

Specification/claims:	Synthetic Blend 10W-30 FA-4
API FA-4	•
Cummins CES 20087	•
Detroit Diesel DFS 93K223	•
JASO DH-2	✓

Supporting data available to demonstrate acceptable performance. Check with your sales associate for latest product approvals. Please note, these are typical performance indicators and can change without notice. This data sheet replaces previous versions prior to 1/24/2023

## Typical Results

Test Methods	Synthetic Blend 10W-30 FA-4
VISCOSITY (D445) cSt @ 40°C cSt @ 100°C	66.3 9.7
VISCOSITY INDEX (D2270)	128
DENSITY @ 15°C (D4502), kg/L	0.87
POUR POINT (D97), °C	-36
FLASH POINT (D93), °C	200
CCS @-25°C (D5293), cP	5800
TBN (D2896), mg KOH/g	10
HTHS @ 150°C (D4683), cP	3.2
PUMPING @-30°C (D4684), cP	15,800
SULFATED ASH (D874), %wt.	1.0 max

## Size & Order Codes

Size	Synthetic Blend 10W-30 FA-4
5 L (1.32 US Gal)	FX0003330
18.9 L (5.0 US Gal)	FX0003340

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# CVT MULTI-VEHICLE CONTINUOUSLY VARIABLE TRANSMISSION FLUID



**Q.A.P. CVT** is a multi-vehicle synthetic transmission fluid designed for continuous variable transmission. This multi-vehicle CVT fluid provides excellent anti-shudder durability and friction protection to keep your transmission running smoothly.

**Q.A.P. CVT** fluid meets the performance requirements of a wide variety of vehicles equipped with push-belt and chain CVTs, such as Nissan, Toyota, Subaru, Mitsubishi, Suzuki and Honda.

**Q.A.P. CVT** is not to be used in DCT applications.

## Features & Benefits

- Provides robust, durable performance
- Performance validated with extensive vehicle testing
- Extends integrity and operational life of critical components
- Anti-shudder durability and friction protection

## Typical Results

Test Method	CVT
COLOUR	Green
DENSITY @ 15°C (D4052), kg/L	0.85
VISCOSITY (D445)	
cSt @ 40°C	33.3
cSt @ 100°C	7.1
VISCOSITY INDEX (D2270)	185
BROOKFIELD VISC. @ -40°C (D2983), cP	14,900
POUR POINT (D97), °C	-51
FLASH POINT (D92), °C	197

Supporting data available to demonstrate acceptable performance. Check with your sales associate for latest product approvals. Please note, these are typical performance indicators and can change without notice. This data sheet replaces previous versions prior to 28/11/2022.

## Sizes & Order Codes

Size	CVT
946 mL (1 US qt)	FX0004915
5 L (1.32 US Gal)	FX0004930

## Specifications

■ SFU – Suitable for use in the listed vehicle specifications

Specification / Vehicle	CVT
Audi Multitronic	■
Chery CVT	■
Daihatsu AMMIX CVTF-DC	■
Daihatsu AMMIX CVTF-DFC	■
Daihatsu AMMIX CVTF-DFE	■
Daihatsu Fluid TC	■
Dodge/Chrysler/Jeep/Mopar CVT+4®	■
Dodge/Jeep/Chrysler NS-2	■
Fiat Tutela Car CVT N.G	■
Fujijyuuko i-CVTF FG	■
GM/Saturn DEX-CVT, GM 1940713 & 1940714	■
Honda CVT, HMMF, Z-1 <sup>1</sup>	■
Honda HCF2	■
Hyundai/Kia SP CVT-1	■
Hyundai/Kia SP III <sup>2</sup>	■
Idemitsu CVTF-EX1	■
Lexus Fluid TC, Fluid FE	■
Mazda CVTF 3320	■
MG Rover EM-CVT	■
Mini Cooper (BMW) EZL 799, EZL 779A & ZF CVT V1	■
Mitsubishi (DiaQueen) ATF SP-III <sup>2</sup>	■
Mitsubishi CVTF ECO J4	■
Mitsubishi (DiaQueen) CVTF J1	■
Mitsubishi (DiaQueen) CVTF J4 & J4+	■

<sup>1</sup> CVT without starting clutch

<sup>2</sup> CVT model only

Suitable For Use (SFU) – Supporting data from field trial studies to demonstrate acceptable performance

CVTF – Continuously Variable Transmission Fluid

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# CVT MULTI-VEHICLE CONTINUOUSLY VARIABLE TRANSMISSION FLUID

## Specifications Continued

■ SFU – Suitable for use in the listed vehicle specification

Specification / Vehicle	Q.A.P CVT
Nissan N-CVT, NS-1, NS-2, NS-2V & NS-3	■
Punch CVTF-EX1	■
Renault CVT CK/SK/FK	■
Renault Elf Matic CVT	■
Subaru ECVT	■
Subaru iCVT & iCVT FG	■
Subaru Lineartronic chain CVT, CVT II; High Torque (HT) CVTF & CV-30	■
Subaru NS-2	■
Suzuki CVTF Green 1 (Shell Green 1V)	■
Suzuki CVTF Green 2	■
Suzuki CVTF 3320 & 4401	■
Suzuki CVTF TC	■
Suzuki NS-2	■
Toyota CVTF FE & TC	■
Volvo CVT 4959	■
VW/Audi TL 52516 (G 052 516)	■
VW/Audi TL 52180 (G 052 180 A2)	■
Zotye CVTs	■

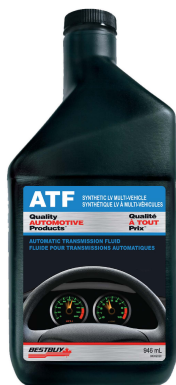
Electro Mobility	Q.A.P CVT
Toyota THSII / Toyota Prius	■
Ford Escape Hybrid with e-CVT	■
Honda iMMD	■
Jatco CVT 8 Hybrid	■

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# QAP SYNTHETIC LV MULTI-VEHICLE ATF



**Q.A.P. Synthetic LV Multi-Vehicle ATF** is a premium, low-viscosity, full synthetic, multi-vehicle transmission fluid designed to provide unparalleled performance in automatic transmissions. It contains additives that enhance oxidation resistance, shear and viscosity stability that prevents the formation of deposits for up to twice the service life of the previous generation DEXRON® III and IIE fluids.

It offers excellent fluidity at low temperatures, allowing better cold lubrication and faster flow rates to reduce warm-up time. It has good thermal stability, protects better and longer to reduce wear and extend the transmission life. It has outstanding anti-corrosive and anti-foam characteristics. Its synthetic low friction properties ensure less vibration, slippage and shudder, even during rapid acceleration.

**Q.A.P. Synthetic LV Multi-Vehicle ATF** is backwards compatible, making it suitable for use in transmissions where DEXRON® III-H, III-G, III-E & II are required.

## Features & Benefits

- Full Synthetic Multi-Vehicle ATF
- Exceptional low-temperature fluidity
- Improves friction durability
- Improves deposit control for better transmission cleanliness
- Eliminates slippage and shudder
- Extends integrity and operational life of critical components

## Typical Results

Test Method	Q.A.P. Syn LV/MV ATF
COLOUR	Red
DENSITY @ 15°C (D4052), kg/L	0.84
VISCOSITY (D445)	
cSt @ 40°C	29.2
cSt @ 100°C	5.9
VISCOSITY INDEX (D2270)	153
BROOKFIELD VISC. @ -40°C (D2983), cP	8,770
POUR POINT (D97), °C	-51
FLASH POINT (D92), °C	218

Supporting data available to demonstrate acceptable performance. Check with your sales associate for latest product approvals. Please note, these are typical performance indicators and can change without notice. This data sheet replaces previous versions prior to 16/06/2022

## Sizes & Order Codes

Size	Q.A.P. Syn LV/MV ATF
946 ml (1 US qt)	FX0002415
60 L (15.85 US Gal)	FX0002445
205 L (54.2 US Gal)	FX0002450

## Specifications

■ SFU – Suitable for use in the listed vehicle specification

Low-Viscosity Specifications	
Specification / Vehicle	Q.A.P. Syn LV/MV ATF
Aisin Warner AW-1, JWS 3324 (WS)	■
Audi G 060 162, G 055 540, G 055 005	■
BMW 83 22 2 152 426	■
BMW ATF 3+ 83 22 2 289 720	■
Chrysler/Dodge/Jeep 68043742AA, 05127382AA, 68171866A	■
FORD MERCON® LV	■
GM DEXRON®-VI (SF only)	■
Honda DW-1	■
Hyundai/Kia NWS-9638	■
Hyundai/Kia SP-IV, SP-IV RR, SP-IV M/ SP4-M	■
Jaguar Fluid 02JDE 26444	■
Jaguar Fluid 8432	■
JASO 1A-LV	■
Land Rover Fluid LR023288	■
Mazda ATF FZ	■
Mercedes-Benz MB 236.14, 236.15, 236.17	■
Mitsubishi Diaqueen J3/Diaqueen ATF PA	■
Mitsubishi SP-IV	■
Nissan Matic S	■
Saab 93 165 147	■
Toyota ATF WS (JWS 3324)	■
Volvo 6 speed MY 2011-2013 (P/N 31256774/ 31256675)	■
VW G 060 162, G 055 540, G 055 005	■
ZF – 6, 8 & 9 speed transmissions	■

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# QAP SYNTHETIC LV MULTI-VEHICLE ATF

## Specifications Continued

■ SFU – Suitable for use in the listed vehicle specification

High-Viscosity Specifications	
Specification / Vehicle	Q.A.P. Syn LV/ MV ATF
Aisin Warner JWS 3309 (T-IV)	■
Audi 5HP LT71141 (ZF 5 HP 18FL/19FL/24A)	■
Audi G 052 162, G 052 990, G 055 025	■
BMW 7045E (3 Series), 8072B (5 Series), LA 2634, LT 71141 (ZF 5HP 18FL/19FL/24A)	■
BMW JWS 3309 (T-IV)	■
BMW ZF 5HP18FL, 5HP24, 5HP30	■
Chrysler ATFs (incl. ATF+3®)	■
Chrysler/Dodge MOPAR AS 68 RC and AS 69 RC (T-IV), JWS 3309	■
Chrysler/Dodge/Jeep 68157995AA, 68157995AB, 68218925AA	■
Daewoo LT 71141	■
Daihatsu AMMIX ATF D-II, ATF D-III SP	■
FIAT T-IV type (JWS 3309)	■
Ford FNRS	■
Ford MERCON®	■
Ford WSS M2C 922A1, 924A (XT-8-QAW) JWS 3309	■
FUSO ATF-II, ATF-SPIII, ATF-A4	■
GM TASA, DEXRON®-II (IID, IIE) -III (IIIF, IIIG, IIIH)	■
Hino Blue Ribbon ATF	■
Honda ATF Z1 (all except CVTs)/ Acura ATF Z1	■
Honda Type 3.0	■
Honda Type 3.1	■
Hyundai/Kia 040000C90SG	■
Hyundai/Kia SP-II, SP-III, JWS 3314, JWS 3317	■
ISUZU BESCO ATF-II, ATF-III, ATF SP	■
ISUZU SCS Fluid	■
Jaguar ATF 3403, ATF 3403-M115, LT71141, ZF 5HP24, JLM20238, JLM20292, K17	■
JASO 1A, 2A	■
Kia Red-1	■
Lexus JWS 3309	■

High-Viscosity Specifications	
Specification / Vehicle	Q.A.P. Syn LV/ MV ATF
Mazda ATF S-1, ATF N-1, ATF D-II, ATF F-1, ATF M-III, ATF M-V, ATF 3317	■
Mercedes-Benz MB 236.10 (NAG 1 / Shell 3403)	■
Mercedes-Benz MB 236.11 (Esso LT 71141)	■
Mercedes-Benz; MB 236.1, 236.2, 236.3, 236.5, 236.6, 236.7, 236.8, 236.9	■
Mitsubishi Diaqueen J2, SK	■
Mitsubishi Diaqueen SP-II, SP-III	■
Nissan 402, Nissan Matic C, D, J, K	■
Peugeot Societe Anonyme (PSA) ZF 4HP20	■
Porsche ZF 5HP19FL, ZF 5HP20, LT71141, ATF 3403-M115, T-IV (JWS 3309)	■
Renault DPO/AL4, Matic D2, Samsung SATF-D	■
Saab T-IV (JWS 3309), 96 160 393	■
Saturn T-IV (JWS 3309)	■
Ssang Yong DSIH 5M-66	■
Subaru ATF, ATF-HP, DEXRON® II, ATF 5AT	■
Suzuki 3314, 3317, JWS 3309, AT OIL 5D06, ATF 2326, ATF 2384K	■
Texaco N402 (JATCO), ETL-7045E (BMW 7045E), ETL-8072B (BMW 5 Series)	■
Toyota ATF D-II, D-III, T-III, T-IV (JWS 3309)	■
Vickers M2950-S, I-286-S	■
Volvo 4 speed (P/N 1161621)	■
Volvo P/N 1161540/1161640	■
VW 5HP (18FL /19FL/ 24A/ 30), ZF 5HP 30	■
VW G 052 162, G 052 990, G 055 025, TL 521 62	■
ZF - 5 speed transmissions	■
ZF - all 3 & 4 speed transmissions	■
ZF TE-ML 05L, 09, 11A, 11B, 21L	■

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# DEX/MERC AUTOMATIC TRANSMISSION FLUID (ATF)



**Q.A.P. ATF DEX MERC** is a premium product specially formulated for automatic transmissions manufactured in 2005 and prior for General Motors, Ford and Chrysler vehicles requiring GM DEXRON®, -II, -III and Ford MERCON® fluid.

It provides excellent low-temperature fluidity and suitable viscosity at temperatures more than 149 °C for bearing and gear lubrication. It has excellent corrosion and foam prevention properties. It will not cause excessive swelling or shrink seals, nor cause them to become unduly hard or soft. It also has excellent oxidation resistance, preventing varnish and gum deposits from forming on sensitive transmission parts even after long periods at high temperatures.

**Q.A.P. ATF DEX MERC** meets specifications by Allison as a type C-4 Fluid and can be used in Ford model C-6 automatic transmissions built on or after 1977. It can also be used in some power steering systems, hydro-static systems and power shift transmissions where this type of oil is recommended.

It is not recommended for Ford transmissions requiring specific "Type F" or MERCON® V GM DEXRON®-VI.

## Specifications

✓ Meets Requirements

Specification	Q.A.P. ATF DEX MERC
Allison C-3 & C-4	✓
Allison TES-389	✓
American Motors ATF+3	✓
Audi G 052 162-A1/A2 (ZF Lifeguard 5)	✓
BMW 7045E, ETL-8072B, LA2634	✓
CAT TO-2	✓
Chrysler ATF+2, +3	✓
Ford MERCON®	✓
Ford WSS M2C 138CJ, 166H	✓
GM DEXRON®-II, -IID, -IIE, -IIIG, -IIIH	✓
GM TASA	✓
Hyundai/Kia DEX-II/SP-II	✓
Jaguar JLM 20292, 20238	✓
Mazda ATF M-III, ATF F-I	✓
MB ZF 4HP20	✓
NAG 1 (Chrysler, Jeep, Cherokee)	✓
Opel/GM 19 40 700, 19 40 767, 21005966 Transaxle, 22 17466	✓
Peugot/Citreon Z 000169756, AL4 Automatic gearbox oil (#9730.AE)	✓
Porsche 000 043 205 09, 999 917 547 00, Z 000169756	✓
Renault Matic D2, DPO/AL4	✓
Volvo CE 97340	✓
Volvo 97325, 97335	✓
Vickers M2950-S, I-286-S	✓
VW G US 000 162	✓
ZF TE-ML 05L, 09, 21L	✓

## Features & Benefits

- Excellent corrosion and foam prevention
- Safe for all seals
- Promotes transmission cleanliness

## Typical Results

Test Method	Q.A.P. ATF DEX MERC
COLOUR	Red
VISCOSITY (D445) cSt @ 40°C cSt @ 100°C	33.1 7.1
VISCOSITY INDEX (D2270)	185
DENSITY @ 15°C (D4052), kg/L	0.85
POUR POINT (D97), °C	-42
FLASH POINT (D93), °C	190

## Sizes & Order Codes

Size	Q.A.P. ATF DEX MERC
946 mL (1 US qt)	FX0000415
205 L (54.2 US Gal)	FX0000450

Supporting data available to demonstrate acceptable performance. Check with your sales associate for latest product approvals. Please note, these are typical performance indicators and can change without notice. This data sheet replaces previous versions prior to 09/09/2022.

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**Q.A.P. Gear Oil** is an extreme pressure (EP) automotive gear lubricant made from high-quality, high viscosity index (VI) base oils. The special additives used make it effective at providing high load-carrying protection with outstanding rust, corrosion and foam prevention. Excellent oxidation control and thermal stability prevent sludge formation and deposits, leaving clean gears after many miles of service. It also offers a high level of protection in extremely wet and dirty environments.

It suits automotive, heavy-duty fleets, construction, forestry, agricultural and stationary equipment.

**Q.A.P. Gear Oil** is recommended for light-duty and heavy-duty axels when the manufacturer specifies the use of an oil that meets the performance requirements of API GL-5, as well as heavy-duty non-synchronized manual transmissions where the manufacturer specifies the use of oils that meet the performance requirements of API MT-1.

This gear oil's excellent low-temperature characteristics make it suitable for enclosed gear sets in outdoor industrial applications. Its high film strength reduces wear rates even in slow-speed, heavily-loaded gear sets.

## Features & Benefits

- Excellent thermal and oxidation stability
- Strong foam suppression
- Good extreme pressure protection
- Exceptional compatibility with common seal materials

## Specifications

✓ Meets Requirements   ■ Suitable for use

Specifications	Q.A.P. GEAR OIL
API GL-5	✓
API MT-1	✓
Ford WSP-M2C197A	■
ZF TE-ML 07A, 08	✓

Supporting data available to demonstrate acceptable performance. Check with your sales associate for latest product approvals. Please note, these are typical performance indicators and can change without notice. This data sheet replaces previous versions prior to 09/09/2022.

## Typical Results

Test Method	Q.A.P. GEAR OIL
<b>SAE GRADE</b>	80W-90
<b>VISCOSITY (D445)</b> cSt @ 40°C cSt @ 100°C	136.8 14.6
<b>VISCOSITY INDEX (D2270)</b>	106
<b>BROOKFIELD VISCOSITY (D2983)</b> cP @ -26°C	109,215
<b>POUR POINT (D97), °C</b>	-33
<b>DENSITY @ 15°C (D4052), kg/L</b>	0.89
<b>FLASH POINT (D93), °C</b>	170
<b>TIMKEN LOAD (D2782), kg</b>	32

## Sizes & Order Codes

Size	Q.A.P. GEAR OIL
946 mL (1 US qt)	FX0000715
205 L (54.2 US Gal)	FX0000750

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# HYDRAULIC OIL



**Bestbuy PRO Hydraulic** is formulated with anti-wear additives to offer corrosion and wear protection while maintaining good oxidation and water resistance properties for various low and medium-duty hydraulic systems.

It is formulated with antifoam additives to prevent air entrainment and foam formation.

Not recommended for use with pumps that contain silver-plated parts.

## Features & Benefits

- Good corrosion and wear protection
- Good oxidation resistance
- Great water resistance and separation in areas where water is unavoidable

## Specifications

■ Suitable for use

Specification	22	32	46	68
AIST 126 / 127	■	■	■	■
ASTM D6158 (HM)	■	■	■	■
ISO 11158 (HM)	■	■	■	■
DIN 51524-2 (HLP)	■	■	■	■

Check with your sales associate for latest product approvals. Please note, these are typical performance indicators and can change without notice. This data sheet replaces previous versions prior to 9/09/2022.

## Typical Results

Test Method	22	32	46	68
ISO GRADE	22	32	46	68
DENSITY @ 15°C (D4052), kg/L	0.86	0.87	0.88	0.88
VISCOSITY (D445) cSt 40°C	21.9	32.9	46.5	69.3
cSt 100°C	4.3	5.4	6.8	8.8
VISCOSITY INDEX (D2270)	102	97	100	99
FLASH POINT (D93), °C	192	205	215	220
POUR POINT (D97), °C	-36	-30	-27	-24
TOST (D943), Hrs.	2500 +	2500 +	2500 +	2500 +

## Sizes & Order Codes

Size	22	32	46	68
18.9 L (5.0 US Gal)	FX0003540	FX0003640	FX0003740	FX0003840

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# DEF (Diesel Exhaust Fluid)



**Q.A.P. DEF** is a 32.5% aqueous Urea Solution, AUS 32, a manufactured product of technically pure urea mixed with demineralized water designed to meet the specifications of DIN 70070 and ISO 22241-1:2019 for NOx abatement technologies.

It is certified as a Diesel Exhaust Fluid by the American Petroleum Institute.

**Q.A.P. DEF** transforms harmful nitrogen oxide emissions from diesel-powered vehicles into harmless water vapour and nitrogen.

It is contained in a separate tank and sprayed from the SCR (Selective Catalytic Reduction) systems into the exhaust gases.

## Features & Benefits

- API certified
- Meets ISO 22241-1 quality specifications
- Nontoxic, nonpolluting, nonhazardous and non-flammable
- Transforms harmful emissions to water vapour
- Adheres to the 2010 EPA (Environmental Protection Agency) Clean Air Act
- Provides better fuel mileage

## Sizes & Order Codes

Size	Q.A.P. DEF
9.46 L (2.5 US Gal)	FX0002910
208 L (55 US Gal)	FX0002950

Check with your sales associate for latest product approvals. Please note, these are typical performance indicators and can change without notice. This data sheet replaces previous versions prior to 9/09/2022

## Typical Results

Test Method	Q.A.P. DEF
Urea Concentration, % m/m	32.5 +/- 0.7%
Density @ 20° C, kg/L	1.087 – 1.093 kg/m3
Refractive index @ 20° C	1.3814 – 1.3843
Free Ammonia (alkalinity)	0.2% max
Biuret, % m/m	0.3% max
Formaldehyde, mg/kg	5.0 max
Insoluble matter, mg/kg	20.0 max
Phosphates, mg/kg	0.5 max
Calcium, mg/kg	0.5 max
Iron, mg/kg	0.5 max
Copper, mg/kg	0.2 max
Zinc, mg/kg	0.2 max
Chromium, mg/kg	0.2 max
Nickel, mg/kg	0.2 max
Aluminum, mg/kg	0.5 max
Magnesium, mg/kg	0.5 max
Sodium, mg/kg	0.5 max
Potassium, mg/kg	0.5 max
FTIR Identity	Identical to reference

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# DEF (Diesel Exhaust Fluid)

## ISO 22241-3:2017 – Shelf Life as a Function of Storage Temperature

Constant Ambient Storage Temperature (°C)	Minimum Shelf Life (Months)
≤10	36
≤25	18
≤30 <sup>a</sup>	12
≤35	6
>35	Significant loss of shelf life: Check every batch before use

NOTE: The main factors taken into account to define the shelf life in this table are the ambient storage temperature and the initial alkalinity of AUS 32. The difference in evaporation between vented and non-vented storage containers is an additional factor.

To prevent decomposition of AUS 32, prolonged transportation or storage above 30 °C should be avoided.

Never store Irving DEF in direct sunlight.

**Table Reference:**

International Organization for Standardization. (2017). Diesel engines – NOx reduction agent AUS 32 – Part 3: Handling, transportation, and storage (ISO Standard No. 22241-3:2017). Retrieved from <https://www.iso.org/standard/66410.html>

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# HEAVY DUTY MULTI PURPOSE GREASE



**Q.A.P. Heavy Duty Multi-Purpose Grease** is a capable, high-performance grease for all chassis, wheel bearings, pin & bushing, ball and universal joints. The versatility makes this product the ideal solution to reduce the need for multiple products and the risk of misapplication.

It has excellent mechanical stability under repeated mechanical stress and shows little tendency to separate. It has good resistance to water, making it an excellent choice when water contamination is unavoidable.

**Q.A.P. Heavy Duty Multi-Purpose Grease** meets the NLGI (National Lubricating Grease Institute) GC/LB rating. GC indicates proven shear stability, oxidation and evaporation resistance, and corrosion and wear resistance with frequent operating temperatures as low as -40°C and exceeding 160°C in wheel bearings. NLGI LB indicates proven performance oxidation resistance, shear stability, corrosion, and wear protection in chassis applications.

It is available in a standard NLGI #2 for ease of application by hand, pressure gun, or from a centralized greasing system allowing for maximum flexibility in application.

## Features & Benefits

- Resists excessive thickening in extreme cold for ease of pumpability
- Proven Lithium Complex thickener
- Extreme Pressure (EP) additives prevent wear
- Automotive, fleet, construction, forestry and agricultural applications
- NLGI #2 grade for multiple types of dispensers
- Meets NLGI GC/LB requirements for automotive chassis and disc brake wheel bearings
- Less resistance in cold temperatures for easier operation
- Excellent protection against extreme pressure damage, corrosion and rust
- Extends equipment life
- High heat protection

## Typical Results

Test Method	Q.A.P. HD MULTI-PURPOSE GREASE
NLGI GRADE	2
CONE PENETRATION @ 25°C, WORKED 60 STROKES (D217)	265-295
THICKENER TYPE (D128)	Lithium Complex
DROPPING POINT (D2265), °C, Typical	273
BASE OIL VISCOSITY (D445) cSt @ 40°C cSt @ 100°C	250-320 25.7
VISCOSITY INDEX (D2270)	90
COLOUR/APPEARANCE	Amber/Smooth
OXIDATION STABILITY @ 100 HRS (D942), psi	3
TIMKEN OK LOAD (D2509), lbs.	50
FOUR BALL EP WELD POINT (D2596), kg, Typical	315
FOUR BALL WEAR SCAR DIA. (D2266), mm	0.43
RUST PREVENTION (D1743)	Pass
COPPER CORROSION (D130)	1a
WATER SPRAY-OFF (D4049), % loss	20
WATER WASHOUT @ 79.4°C (D1264), % loss	5

Supporting data available to demonstrate acceptable performance. Check with your sales associate for latest product approvals. Please note, these are typical performance indicators and can change without notice. This data sheet replaces previous versions prior to 09/15/2022.

## Sizes & Order Codes

Size	Q.A.P. HD MULTI-PURPOSE GREASE
400 g tubes, box of 10	FXG000111

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# MULTI PURPOSE GREASE



**Q.A.P. Multi-Purpose Lithium Grease** is high-quality, multi-purpose grease for all automotive chassis, universal joints, water pumps, roller, plain, and AF bearings in automotive, general commercial and industrial applications.

It has excellent shear stability over a broad operating temperature range, making it ideal for year-round service. It contains extreme pressure (EP) additives to provide superior load-carrying capabilities to reduce wear and extend equipment life. The strong resistance to spin-off and water resistance means it maintains protection in adverse conditions.

**Q.A.P. Multi-Purpose Lithium Grease** meets NLGI LB for proven oxidation resistance, shear stability, corrosion protection and wear protection.

Available in a standard NLGI (National Lubricating Grease Institute) #2 for ease of application by hand, pressure gun, or from a centralized greasing system.

Not recommended for use on wheel bearings with disc brakes. For those applications, use Q.A.P. Heavy Duty Multi-Purpose Grease.

## Features & Benefits

- High-quality Lithium thickener
- Good shear stability
- NLGI #2 grade for multiple types of dispensers
- Meets NLGI LB requirements for automotive chassis
- Economical for a broad array of applications
- Strong performance life
- Resists spin-off and water wash-off
- Year-round performance

## Sizes & Order Codes

Size	Q.A.P. MULTI-PURPOSE LITHIUM
400 g tubes, box of 10	FXG000211

Supporting data available to demonstrate acceptable performance. Check with your sales associate for latest product approvals. Please note, these are typical performance indicators and can change without notice. This data sheet replaces previous versions prior to 09/15/2022.

## Typical Results

Test Method	Q.A.P. MULTI-PURPOSE LITHIUM GREASE
NLGI GRADE	2
CONE PENETRATION @ 25°C, WORKED 60 STROKES (D217)	265-295
THICKENER TYPE (D128)	Lithium 12 Hydroxy
DROPPING POINT (D2265), °C	176 Typ.
BASE OIL VISCOSITY (D445) cSt @ 40°C cSt @ 100°C	175-180 15-18
VISCOSITY INDEX (D2270)	80 min
COLOUR/APPEARANCE	Dark Amber/Smooth
RUST PREVENTION (D1743)	Pass
TIMKEN OK LOAD (D2509), lbs.	35 min
POUR POINT (D97), °C	-10 max

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