

## 2 Cycle Engine Oils

### Motex® 2T – 2 Stroke Engines, Moped, Motorcycle

Motex 2T offers highly reliable protection to light and medium duty engines, delivering exceptional protection against wear and piston scuffing and outstanding keep-clean performance. Motex 2T is formulated for land applications in air cooled engines in light and medium duty applications such as in light motorcycles, mopeds and lawnmower applications.

Motex 2T should be used in 50/1 fuel /oil ratio, however engine manufactures' recommendations should be followed if different doses are indicated.

Selected specification standards include:

- API TC
- JASO FB

## Coolants

### Havoline® XLC– Antifreeze Coolant

Formulated to deliver extended or whole-life maintenance-free protection, Havoline XLC offers environmentally friendly corrosion resistance to automotive and heavy duty coolant systems, against all types of corrosion in all types of metal component.



- Reduced maintenance costs, thanks to longer change intervals on cars and light trucks – up to 250,000 kms or (2000 hours), in truck and bus systems it offers 650,000 kms (or 8000 hours) of high reliability protection.
- To ensure good corrosion protection it is recommended to use at least 33 vol. % of Havoline XLC in the coolant solution this provides frost protection to -20°C.
- Typical mixtures in Northern Europe of 50/50 offer frost protection down to -40°C.

Selected specification standards include:

- ASTM
- DAF
- MB
- Ford
- GM
- Mazda
- Renault Trucks
- Scania
- Leyland Trucks
- MAN

## Brake Fluid

### Brake Fluid DOT4

Efficient performance automotive brake fluid

- High Boiling Point
- Helps prevent vapour lock
- Contributes to protection against component wear
- Compatible with other brands of DOT 4/DOT 3 brake fluid\*

Selected specification standards include:

- FMVSS 116 DOT3, DOT 4
- ISO 4925
- SAE J1703, J1704

\* Brake Fluid DOT 4 should not be used in systems designed for mineral based fluids (LHM), for example certain Citroen models, or where Silicone DOT 5 fluids are recommended

## Greases

### Starplex® EP2

Lithium complex grease for wheel bearings:

- Wide operating temperature range
- Good thermal stability
- Does not drip onto brake disks or pads.

### Multifak® EP2

Lithium soap grease suitable for a wide range of applications:

- Protects under severe loads
- Resists water washout
- Wide operating temperature range.

### Copper Grease 9143

A clay thickened, NLGI No. 2 grease, containing mineral oils. It is designed to prevent seizure of metal components under high pressure and to lubricate sliding surfaces. Copper Grease 9143 contains leafing copper powder and adhesion promoting polymers, offering excellent rust prevention, resistance to water and is suitable for use in extremely high temperatures.

- Prevent screws and bolts rusting
- Exhaust systems and brake mechanisms from seizing or rusting
- Can be used on battery terminals to provide good electrical contact and prevent corrosion
- Prevent fretting corrosion between sliding surfaces

## Approvals & Performance

### Engine Oils

Product	ACEA <sup>1</sup>	API	BMW	Ford	GM/Opel	MB	Porsche	Renault	VW	Vauxhall
Havoline Energy 5W-30	A1/B1 A5/B5	SL/CF**		913-A 913-B 913-C				RN 0700**		
Havoline Extra 10W-40	A3/B4	SL/CF**				229.1**			501.01 505.00	
Havoline Diesel Extra 10W-40	A3/B4	SL/CF**				229.1**			501.01 505.00	
Havoline Synthetic 506.01 0W-30	A5/B5								503.00 506.00 506.01	
Havoline Synthetic 5W-40	A3/B4	SM/CF**	LL-01**		GM-LL-B-025**	229.3** 229.5**	A 40**	RN 0700** RN 0710**	501.01** 502.00** 505.00**	GM-LL-B-025**
Havoline Ultra 5W-40	A3/B4	SM/CF**	LL-01**		GM-LL-B-025**	229.3** 229.5**	A 40**	RN 0700** RN 0710**	501.01** 502.00** 505.00**	GM-LL-B-025**
Havoline Ultra Long Life G 5W-30	A3/B4	SL/CF**			GM-LL-A-025** GM-LL-B-025**					GM-LL-A-025** GM-LL-B-025**
Havoline Ultra S 5W-30	A3/B4, C3	SM/CF**	LL-04		Dexos 2*	229.31 229.51			502.00 505.00	
Havoline Ultra S 5W-40	A3/B4, C3	SM/CF**	LL-04	917 A**	Dexos 2*	229.31 229.51	A 40	RN 0700** RN 0710**	502.00 505.00 505.01	
Havoline Ultra V 5W-30	A3/B4		LL-04			229.51			504.00** 507.00**	Long Life III Oil**

### Gear Oils

Product	API	MIL	MAN	MB	ZF TE-ML
GearTex EP-A 80W	GL-4**	L-2105**	341 Type Z1/341 Type E1	235.1	02A, 08, 17A

### Automatic Transmission Fluids

Product	ALLISON	CAT	GM Dexron	MAN	Ford	Aishin Warner	VOITH	ZF TE-ML
Texamatic 7045E	C4**	T0-2**	III G**	339 Type V1	Mercon**	T-III**	55.6335 (was G607)	04D, 09, 17C

### Specialist Fluids & Antifreeze/Coolants

Product	API	JASO	ISO	SAE	FMVSS	Ford	GM	Leyland Trucks	MB	MAN	Renault Trucks	VW
Motex 2T	TC	FB										
Brake Fluid			4925 Class 3 4925 Class 4	J1703 J1704	116 DOT 3 116 DOT 4							
Havoline XLC						WSS-M97B44-D	6277M	DW 03245403	325.3	324 Type SNF	41-01-001/S Type D	TL-774 D TL 774 F

\*\* Performance - product is either (i) not currently formally approved or certified by the OEM or Industry Standard Organization; or (ii) was formally approved against an OEM specification which is now obsolete. However, in Chevron's opinion the product meets the published requirements or specifications for the applicable OEM approval or Industry Standard Organization approval.

\* Product performance is equivalent to that needed to meet the specification requirements of Dexos 2, but product is not approved or endorsed by GM.

<sup>1</sup> According to ACEA Sequences.

# WHEN WAS THE LAST TIME YOU CHECKED YOUR OIL?



## PROTECT PRECIOUS METAL™



**Havoline with Deposit Shield - For over 100 years, consumers have trusted Havoline motor oils to deliver engine performance and protection. Deposits in the engine create friction and rob engines of performance and fuel efficiency. Havoline with Deposit Shield helps protect engine components from the constant onslaught of harmful deposits.**

**Low SAPS Oils - For The Latest High Performance Petrol Vehicles & High Performance Diesel Vehicles with Diesel Particulate Filters (DPFs) requiring low sulphur oils (Low SAPS).**

**Havoline® Ultra S** - suitable for BMW, Daimler, Mercedes, Porsche, GM

Ultra high performance synthetic low SAPS engine lubricant

- Available in two viscosity grades 5W-30 & 5W-40
- Synthetic lubricant technology
- Low SAPS formulation
- Helps increase 3 way catalytic converter service life
- Assists in Diesel Particulate Filter (DPF) cleanliness
- Recommended for BMW and Daimler
- Havoline Ultra S 5W-40 can be used in Porsche cars as of model year 1973

Selected specification standards include:

- ACEA
- API
- BMW (Longlife 04 – restricted to EU Countries)
- Daimler
- Ford
- Porsche
- Renault
- VW
- Performance: Dexos 2\*

\* Product performance is equivalent to that needed to meet the specification requirements of Dexos 2, but product is not approved or endorsed by GM

**Havoline® Ultra V 5W-30** - suitable for Volkswagen, Audi

Ultra high performance synthetic engine lubricant

- Designed for use in Volkswagen/Audi engines
- Synthetic lubrication technology
- Low SAPS performance
- Assists in Diesel Particulate Filter (DPF) cleanliness
- Backwards compatibility \* See note
- Suitable for Gasoline and Diesel engines



Selected specification standards include

- ACEA
- VW
- BMW
- Daimler

\* Havoline Ultra V 5W-30 is backwards compatible with other active and obsolete VW/Audi engine oil specifications and can be used in engines requiring other VW/Audi engine oils except for :

- R5 Direct injected diesel engines with unit injectors and without DPFS
- V10 Direct injected diesel engines with unit injectors and without DPFS, built before 2007.

For these engines only - VW 506.01 oils should be used. The recommended product is Havoline Synthetic 506.01 0W-30

**High Performance Oils - For High Performance Petrol Vehicles & High Performance Diesel Vehicles without Diesel Particulate Filters (DPF's).**

**Havoline® Ultra 5W-40** - suitable for GM, Opel, Vauxhall, Porsche, Renault

Ultra high performance synthetic multigrade engine lubricant

- Synthetic engine oil technology
- Advanced protection and performance
- Wide temperature engine protection across Europe
- Keeps engine clean
- Promotes high level engine wear protection
- Contributes to emissions reduction

Selected specification standards include:

- ACEA
- API
- BMW
- Daimler
- GM /Opel
- Porsche
- Renault
- VW

**Havoline® Energy 5W-30** - suitable for Ford

High performance fuel conserving synthetic engine lubricant

- Advanced synthetic engine performance and protection
- Promotes fuel economy
- Offer high performance wear protection



- Contributes to lower emissions
- Low temperature wear resistance
- High temperature engine protection

Selected specification standards include:

- ACEA
- API
- Renault
- Ford 913C

**Havoline® Ultra G LongLife 5W-30** – suitable for Opel, GM, Vauxhall

Ultra high performance synthetic engine lubricant

- Advanced synthetic lubrication technology
- Recommended for Opel/GM and Vauxhall cars
- Assists extended engine performance cleanliness
- Wide range temperature protection
- Contributes to emissions reduction
- Suitable for Gasoline and Diesel engines

Selected specification standards include:

- ACEA
- API
- Opel/GM



**Havoline® Synthetic 506.01 0W-30** - suitable for Volkswagen, Audi

Ultra high performance synthetic engine lubricant

- Designed for Volkswagen/Audi Gasoline and Diesel engines
- Formulated for prolonged service intervals
- Wide temperature performance
- Helps eliminate black sludge
- Assists easy cold- starts

Selected specification standards include:

- ACEA
- VW 503.00/ 506.00/506.01

**Havoline® Synthetic 5W-40**

Ultra high performance synthetic multigrade engine lubricant

- Synthetic engine oil technology
- Advanced protection and performance



- Wide temperature engine protection across Europe
- Keeps engine clean
- Promotes high level engine wear protection
- Contributes to emissions reduction

Selected specification standards include:

- ACEA
- API
- BMW
- Daimler
- GM/Opel
- Porsche
- Renault
- VW

**Premium Protection Oils –**

**For Older vehicles requiring premium protection.**

**Havoline® Extra 10W-40**

- Part-synthetic technology
- Assists engine protection at cold start-up
- Good low-temperature protection performance
- Helps reduce oil consumption
- Suitable for Gasoline and Diesel engines

Selected specification standards include:

- ACEA
- API
- Daimler
- VW

**Havoline® Diesel Extra 10W-40**

High performance part-synthetic multigrade diesel passenger car engine lubricant

- Part-synthetic technology
- Contributes to lower oil consumption
- Assists wear protection at cold start-up
- Good wide range temperature performance
- Suitable for Diesel and Gasoline engines

Selected specification standards include:

- ACEA
- API
- Daimler
- VW



**Automatic Transmission Fluid**

**Texamatic® 7045E** - suitable for Ford, GM DEXRON

Proven performance automatic transmission fluid

- Suitable for passenger cars, light trucks and buses
- Resists wear, corrosion and oxidation

Selected specification standards include:

- Aishin Warner
- Allison
- Caterpillar
- Ford\* See Note
- GM\* See Note
- MAN
- Voith
- ZF
- ZF Lenksysteme

\* Texamatic 7045E is designed for use in the automatic transmissions of cars, light trucks and buses that require a GM DEXRON®-IIG (GM 6417-M) type fluid. Although this specification has been made obsolete by GM itself, many equipment manufactures continue to recommend fluids of this type.

Texamatic 7045E may be used in Ford passenger car transmissions that require a Ford MERCON®, M2C138-CJ or M2C166-H fluid. The product is not recommended for transmissions that require a Ford MERCON® V fluid (this is a separate specification to MERCON®). Due to fundamental differences in frictional properties, it should not be used in applications that require a Ford M2C33-F/G fluid.

**Gear Oils**

**Geartex® EPA 80W**

- Highly shear stable
- Extreme pressure (EP) wear resistance
- Cold start protection
- Protects against rust and corrosion

Selected specification standards include:

- API GL4
- Daimler
- MAN
- ZF
- ZF Lenksysteme