

Technical Information

4/6/8-cyl
*1/96

1
E

Summary of engine oils approved by Porsche

* Replaces all engine oil approvals published previously.

Rep.Gr. 1701

Vehicle model: **924, 944, 968 model range;**
911, 911 Carrera 2/4, 911 Turbo and 911 Carrera (993) model range;
928 model range.

Approval status: **July 1996**

Concerns: **Summary of engine oils approved by Porsche.**

Notes: The engine oils listed on pages 3 to 12 of this Technical Information are approved for all 4, 6, and 8-cyl. Porsche engines.

Explanatory

notes:

Oil quality and non-conventional basic oils:

The properties of the engine oils are basically determined by the basic oil and the additives in the oil.

Additional positive properties compared to oil with a basic oil (mineral oil) processed **conventionally** can result due to the **non-conventional** basic oils (synthetic or hydrocrack oils) in the finished engine oil. The performance of **non-conventional** basic oils varies only slightly from one type to another, irrespective of whether they have been processed using a synthetic or hydrocrack process.

The engine oils in our approval list ("Quality" column) are identified as follows:

- cp** = basic oil of conventional manufacture - "conventional processing".
- ncp** = basic oil of non-conventional manufacture - "non-conventional processing".
- pnp** = Basic oil partly made from oil of non-conventional manufacture - "partially nonconventional processing".

All-season approved lubricity oils

Due to their composition, these oils are characterised by both low viscosity at low temperatures and good thermal stability, and have a particularly low tendency to evaporate at high temperatures.

Oils that are suited to such high performance requirements - basically only synthetic or hydrocrack oils - can be used without restrictions as all-season oils (in other words, for winter and summer)

These oils also have good lubricity qualities due to their low cold viscosity and can therefore be described as all-season improved-lubricity oils (refer to Approval list column "Quality").

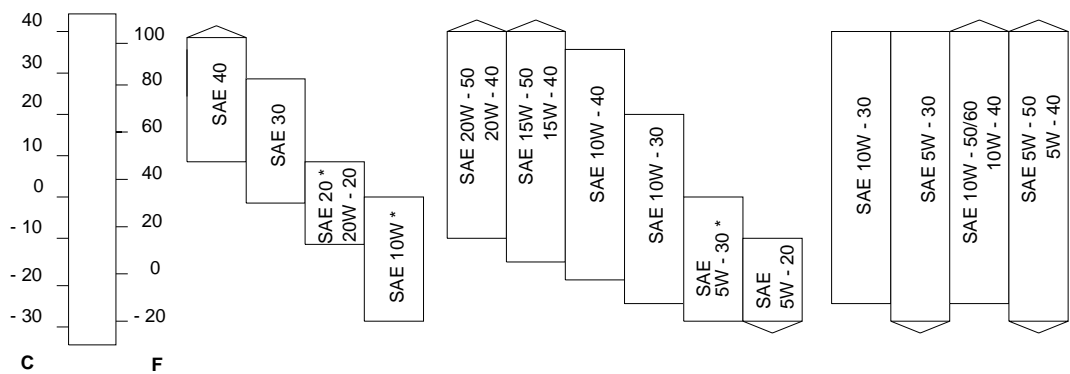
1 E	4/6/8-cyl *1/96	Technical Information
---------------	--------------------	------------------------------

Viscosity and temperature ranges:

The instantaneous viscosity of an oil depends on the viscosity setting of the oil identified by SAE classes and the respective temperature. This means that engine oils based on non-conventional basic oils have better viscosity properties for very wide temperature spans (also refer to item "All-season approved-lubricity oils").

Some low-viscosity engine oils are therefore only suitable for operation at constant very low outside temperatures and can therefore only be loaded to a limited extent. These oils are only approved for special applications, and are identified in the summary with an asterisk (*) (also refer to the diagram "Temperature ranges" below).

Temperature ranges for approved engine oils:



Temperature

Single-grade oils

Multi-grade oils

All-season improved-lubricity oils (synthetic or hydrocrack oils)

* Engine oils for arctic climate and temperatures and can only be loaded to a limited extent.

Miscibility:

The engine oils approved by Porsche are miscible with one another. In other words, it is not necessary to flush out an engine for an oil change when using a different type of oil. This also applies to the miscibility of mineral oils and synthetic oils.

However, as each brand of oil has its own special composition, wherever possible, the same oil should be used for any replenishing required between oil-change intervals.

Technical Information

4/6/8-cyl
*1/96

1_E

Summary of engine oils approved by Porsche:

Manufacturer, oil designation	Viscosity SAE	Quality	Distribution area
ABU DHABI - United Arab Emirates			
Adnoc Pearl	10W - 40	pnp GL	UAE
ADDINOL - Germany			
Super Light MV 0546	5W - 40	ncp GL	EU
AGIP - Italy			
Sint 2000 GPX	10W - 40	pnp GL	EU
Sint Catalyst	10W - 40	pnp GL	EU
Extra HTS	5W - 40	ncp GL	EU
API - Italy			
Apilube Extra Sint	10W - 40	pnp GL	I
ARAL - Germany			
Super Tronic	0W - 40	ncp GL	WW
High Tronic	5W - 30	ncp GL	WW
High Tronic	5W - 40	ncp GL	WW
High Tronic	5W - 50	ncp	WW
Basic Tronic	10W - 40	ncp GL	WW
Super Elastic	15W - 40	cp	WW
AUGROS - Germany			
Synthetic oil	5W - 40	pnp GL	D
Improved lubricity oil	10W - 40	ncp GL	D
Ingralub A-1	5W - 40	pnp GL	D
Ingralub A-2	10W - 40	ncp GL	D
AVIA - Germany			
SYNTH	5W - 40	ncp GL	D
Turbo CFE	10W - 40	ncp GL	D
BP - Germany			
Strato	10W - 40	ncp GL	EU
Strato	5W - 40	ncp GL	EU
Visco 5000	5W - 40	ncp GL	WW
Visco 5000	10W - 40	ncp GL	P; E; GB
Vistra 7000	5W - 40	ncp GL	A
Veritas Syntolube	5W - 40	ncp GL	EU
Pilote 3000	15W - 50	cp	F

1 E	4/6/8-cyl *1/96	Technical Information		
---------------	--------------------	------------------------------	--	--

Manufacturer, oil designation	Viscosity SAE	Quality		Distribution area
CASTROL - Great Britain				
Formula SLX	0W - 30	ncp	GL	WW
Formula LS	5W - 30	ncp	GL	D
Formula RS	10W - 60	ncp		WW
Formula RS (NEW)	10W - 60	ncp		J
Formula RS Super Synthetic	5W - 40	ncp	GL	D
Syntron Extra	5W - 40	ncp		Asi
Syntron	10W - 50	ncp		Asi
Syntec FSX	5W - 50	ncp		USA
TXT Softec Plus	5W - 40	ncp	GL	WW
TXT	10W - 40	ncp	GL	WW
GTX Magnatec	10W - 40	pnf	GL	GB
GTX 3 Lightec	10W - 40	pnf	GL	EU
GTX 5 Lightec	10W - 40	pnf	GL	D
GTX 3	15W - 40	cp		WW
GTX 3	20W - 50	cp		EU
Classic	20W - 50	cp		D
GTX 2 Turbo Tested	15W - 40	cp		WW
GTX 2	20W - 50	cp		WW
GTX 2	15W - 40	cp		Asi.
GTX	10W - 30	cp	GL	USA
GTX	10W - 40	cp	GL	USA
GTX	15W - 50	cp		GB
GTX	20W - 50	cp		WW
GXL	10W - 40	pnf	GL	EU
CEPSA - Spain				
Retto	5W - 40	ncp	GL	E
Retto G	10W - 40	pnf	GL	E
COFRAN - France				
Cofracing	5W - 50	ncp		F; B; E; HK
CONOCO - Germany				
Jet Top Level	5W - 40	ncp	GL	EU
DEA - Germany				
Garant X 1	10W - 40	pnf	GL	D
Viscobil SL	10W - 40	pnf	GL	D
Viscobil S1	5W - 40	ncp	GL	D
Ultec Syn-T	0W - 30	ncp	GL	D
DIVINOL - Germany				
Syntholight	5W - 40	ncp	GL	D

Technical Information

4/6/8-cyl
*1/96

1_E

Manufacturer, oil designation	Viscosity SAE	Quality	Distribution area
DOLLBERGEN - Germany			
Pannasol improved lubricity oil	10W - 40	pnp GL	D
Motor Gold Supertec	5W - 40	ncp GL	D
DUCKHAMS - Great Britain			
QS Motor Oil	5W - 40	ncp GL	GB
ENGEN Petrol - South Africa			
One	10W - 40	ncp GL	ZA
ELF - France			
Competition S	10W - 40	pnp GL	WW
Competition ST	10W - 40	pnp GL	EU
Synthese	5W - 40	ncp GL	EU
Victory HTX	15W - 50	ncp	F
Antar Isofluide Excellia	5W - 40	ncp GL	F; MA
ERG Petroli - Italy			
Ergo Sinthron	10W - 40	pnp GL	I
ERTOIL - Spain			
Supermultigrado Sintetico	10W - 40	pnp GL	E
ESSO - Germany			
Ultra Synthetic Oil	5W - 40	ncp GL	EU
Ultron	5W - 40	pnp GL	EU
Motor Oil XL	10W - 40	pnp	D
Super Oil	15W - 40	cp	EU
Superoil Ultra XE 2	10W - 40	pnp GL	M-A; S-A
Maxxoil	15W - 40	cp	M-A; S-A
Ultra Oil	10W - 40	pnp GL	B; NL; L; N
Superlube EX-2	10W - 40	pnp GL	D
Ultraflo	10W - 40	pnp GL	F; J; S; E; Asi
Tech-Racing	10W - 40	pnp GL	J
Uno Oil GX-5	10W - 40	pnp GL	J
Castle Euaro	10W - 40	pnp GL	J
EUROL - Austria			
Integral SXT	5W - 50	ncp GL	EU
EXXON - USA			
Superflo Supreme Special	15W - 40	cp	USA
FIAT LUBRIFICANTE - Italy			
Selenia	10W - 40	pnp GL	EU

1 E	4/6/8-cyl *1/96	Technical Information		
---------------	--------------------	------------------------------	--	--

Manufacturer, oil designation	Viscosity SAE	Quality	Distribution area
FINA Europe			
First	5W - 40	ncp GL	EU
First Gold	5W - 50	ncp GL	EU
Excel	10W - 40	pnp GL	EU
FUCHS - Germany			
Titan Supersyn	5W - 40	ncp GL	D
Titan Supersyn	5W - 50	ncp GL	D
GINUOVES - France			
York 748	5W - 40	ncp GL	F
GLOBUS - Germany			
Multilub	5W - 40	ncp GL	D
Multilube Synth	5W - 50	ncp	D
Gulf Oil - Austria			
Formula G	5W - 40	ncp GL	F-E; S-A; M-A; EU
TEC	10W - 40	pnp GL	F-E; S-A; M-A; EU
HAFA - France			
Mach 2	10W - 40	pnp GL	F
IDEMITSU - Japan			
Apolloil Best of the Best	5W - 50	ncp	J; USA; EU; F-E
IGOL - France			
Rally ZS Turbo MBV	10W - 40	pnp GL	EU; J
Symbol Ceramic	5W - 40	ncp GL	EU; J
ITALIANA PETROLI - Italy			
IP Max	5W - 40	ncp GL	I
Sintiax Motor Oil	10W - 40	pnp GL	I
JOMO - Japan			
GP-R	5W - 40	ncp GL	J
GP-R	5W - 50	ncp	J
KARSTADT - Germany			
Mach 1	5W - 40	ncp GL	D
Mach 1	5W - 50	ncp	D

Technical Information

4/6/8-cyl
*1/96

1_E

Manufacturer, oil designation	Viscosity SAE	Quality	Distribution area
KUWAIT PETROLEUM - The Netherlands			
Q8 Super	10W - 40	pnp GL	EU
Q8 Top Formula	10W - 40	pnp GL	I
Q8 Advanced	10W - 40	pnp GL	GB
Q8 Super Plus	5W - 40	ncp GL	D; SC
Q8 Super Advanced	5W - 40	ncp GL	GB
Q8 Excel	5W - 40	ncp GL	EU
Q8 Avanceret	5W - 40	ncp GL	DK
Q8 Eksklusiv	10W - 50	ncp GL	DK
LABO IND. - France			
Syntha	5W - 40	ncp GL	F
LEPRINCE - Germany			
Leprincol 500 LS	10W - 40	pnp GL	D
LIQUI MOLY - Germany			
Synthoil High Tech	5W - 40	ncp GL	WW
Fully-synthetic	5W - 40	ncp GL	USA
MAURAN - France			
Inter "Rac XH 2.000"	5W - 40	ncp GL	F
MEGUIN - Germany			
Megol Super improved lubricity	5W - 40	ncp GL	EU; GUS
Megol Super improved lubricity	5W - 50	ncp	EU
MOBIL - Europe/USA			
Mobil 1	0W - 40	ncp GL	WW
Mobil 1	5W - 30	ncp GL	WW
Mobil 1	5W - 40	ncp GL	WW
Mobil 1	10W - 30	ncp GL	WW
Mobil 1	10W - 40	ncp GL	WW
Mobil 1	15W - 50	ncp	WW
Mobil 1 Rally Formula	5W - 40	ncp GL	WW
Mobil 1 Rally Formula	5W - 50	ncp	WW
Super	10W - 40	pnp GL	WW
Super	15W - 40	cp	WW
MOGUL - Poland			
Forte Racing	5W - 40	ncp GL	PL
MOL MAGYAR OLAJ - Hungary			
Carrier Maximol Sint	5W - 40	ncp GL	H
Carrier Maximol Sint	5W - 50	ncp	H

1 E	4/6/8-cyl *1/96	<h2>Technical Information</h2>
---------------	--------------------	--------------------------------

Manufacturer, oil designation	Viscosity SAE	Quality	Distribution area
MORRIS - Great Britain Multilife	5W - 40	ncp GL	GB
MOTOREX - Switzerland Starsynt	5W - 50	ncp	CH
MOTUL - France Synergie 6100 Synergie 6100 Synergie	5W - 40 5W - 40 10W - 40	ncp GL ncp GL pnp GL	F WW WW
OEST - Germany Eta Synthetik	5W - 40	ncp GL	EU
DE OLIEBRON - The Netherlands Tor Multisynth Tor Supersynth SH	10W - 40 5W - 40	ncp GI ncp GL	NL NL
MV - Austria Full-Syn Full-Syn	5W - 40 5W - 50	ncp GL ncp	EU EU
PLAMA PLEVIN OILS - Bulgaria Gerina Ultra Super	5W - 40	ncp GL	BG
PANOLIN - Switzerland Daytona	10W - 40	pnp GL	CH
PENNZOIL - The Netherlands P.Z.L. Turbo Motor Oil P.Z.L. Ultra Turbo P.Z.L. Ultra Turbo semy synthetic PERFORMAX Full Synthetic Motor Oil	15W - 40 10W - 40 5W - 50 10W - 40 5W - 40	cp pnp GL ncp pnp GL ncp GL	EU; USA EU EU EU EU
PENTOSIN - Germany Pentosynth Pentosynth	5W - 40 5W - 50	ncp GL ncp GL	EU EU
PETROGAL - Portugal Galp Formula 1 Plus	5W - 40	ncp GL	P

Technical Information

4/6/8-cyl
*1/96

1_E

Manufacturer, oil designation	Viscosity SAE	Quality	Distribution area
QUAKERSTATE - USA			
Stirling	10W - 30	cp	USA
De Luxe	10W - 40	cp	USA
De Luxe	20W - 50	cp	USA
De Luxe	5W - 30	cp *	USA
Super Blend	10W - 30	cp	USA
Super Blend	20W - 40	cp	USA
HD	10W	cp *	USA
HD	20W - 20	cp *	USA
HD	30	cp	USA
HD	40	cp	USA
Performance	20W - 50	cp	USA
Turbo	10W - 30	cp	USA
Regular	30	cp	USA
* Engine oils for arctic climate and temperatures - can only be loaded to a limited extent.			
RAFINERIA GDANSKA - Poland			
Lotos Syntetic	5W - 40	ncp GL	PL
RAFINERIA TRZEBINIA - Poland			
Aquila Extra Syntetic	5W - 40	ncp GL	PL
REPSOL - Spain			
Competicion	5W - 40	ncp GL	E; P; F
Elite Competicion	5W - 40	ncp GL	E; P; F
ROCK OIL - Great Britain			
Synthesis 4	5W - 50	ncp	GB
ROLOIL - Italy			
Podium	5W - 50	ncp	I
Supersynthetic	10W - 40	pnp GL	I
ROLWAY - France			
Turbo Plus	15W - 50	pnp	F
SAEL - Spain			
Gulf Super S	10W - 40	pnp GL	E; P
SASOL -South Africa			
Super Syn	5W - 40	ncp GL	ZA
SERVO DELDEN - The Netherlands			
Anderol 900	5W - 40	ncp GL	NL
SILVER - Spain			
Staroil F1 SS	15W - 50	pnp	E

1 E	4/6/8-cyl *1/96	Technical Information		
---------------	--------------------	------------------------------	--	--

Manufacturer, oil designation	Viscosity SAE	Quality	Distribution area
SHELL - Deutsche Shell AG Helix Ultra	5W - 40	ncp GL	D
SHELL - International Helix Ultra	5W - 30	ncp GL	WW
Helix Ultra	5W - 40	ncp GL	WW
Helix Ultra	15W - 40	ncp	WW
TMO-Ultra	5W - 40	ncp GL	J
XMO-HI	15W - 40	ncp	AUS
SOPROGRASA - Spain Sopral Jarama	5W - 50	pnp	E
SLASKIE ZAKLADY - Czech Republic Grand Delta	5W - 40	ncp GL	CZ
SLOVNAFT - Slovak Republic Madiť Prima	5W - 40	ncp GL	Ost-EU
SRS SALZBERGEN - Germany Wintershall Primalube Alpha	10W - 40	pnp GL	EU
Wintershall Viva 1	10W - 40	pnp GL	EU
Wintershall Viva 1 Synth	5W - 40	ncp GL	EU
STATOIL - Norway Lazer Way	5W - 40	ncp GL	N
Racing Way	25W - 50	pnp	N
SUN OIL - Belgium Sunoco Futura	10W - 40	pnp GL	WW (not USA/CDN/J)
SUOMEN PETROOLI - Finland Teboil Diamond	5W - 40	ncp GL	FIN
TAMOIL - Italy Sint Formula	10W - 40	pnp GL	I
TETROSYL - Great Britain Carlube Ultragrade F	5W - 50	ncp GL	GB
TEXACO - Belgium Havoline Formula3 X1 Extra	10W - 40	pnp GL	EU
Havoline Formula3 X1 Extra	15W - 50	pnp	EU
Havoline Formula3 Synthetic	5W - 40	ncp GL	EU

Technical Information

4/6/8-cyl
*1/96

1_E

Manufacturer, oil designation	Viscosity SAE	Quality	Distribution area
TOTAL - France			
quartz	10W - 40	pnp GL	EU
quartz	15W - 50	pnp	EU
quartz 9000	5W - 40	ncp GL	WW (not F)
quartz 9000	10W - 50	ncp GL	WW (not F)
Activa 9000	10W - 50	ncp	F
Activa 9000	5W - 40	ncp GL	F
TUNAP - Germany			
Super Economy	10W - 40	pnp GL	D
UNIL - Germany			
Melia LS	10W - 40	pnp GL	EU; MA
Synth	5W - 40	ncp GL	EU; MA
VALVOLINE - The Netherlands			
XLD	15W - 50	cp	WW
Syn Gard	10W - 40	pnp GL	EU
Syn Gard	5W - 40	pnp GL	EU
Syn Power	5W - 40	ncp GL	EU
Syn Power	5W - 50	ncp	EU
Top Gard	5W - 40	pnp GL	EU
Top Gard	10W - 40	pnp GL	EU
Techno Super Syn	5W - 40	ncp GL	D
ProBlend 3000	10W - 40	pnp GL	D
ProBlend 4000	5W - 40	ncp GL	D
VALVOLINE - USA			
High Performance Synthetic	5W - 30	ncp GL	USA
VEBA OEL - Germany			
Virada Top	5W - 40	ncp GL	D
VEEDOL - International			
Super X	15W - 40	cp	EU
Super X	20W - 50	cp	I
Super X-Tra	10W - 40	pnp GL	EU
Synthetic Z	10W - 60	ncp	EU
Synthetic Z	5W - 40	ncp GL	EU
Spezial R	10W - 40	pnp GL	EU
Spezial R plus	5W - 40	pnp GL	EU
Synthron	0W - 30	ncp GL	EU
WESTFALEN - Germany			
Megatron	5W - 40	ncp GL	D

1 E	4/6/8-cyl *1/96	Technical Information		
---------------	--------------------	------------------------------	--	--

Manufacturer, oil designation	Viscosity SAE	Quality	Distribution area
WOLF - Belgium			
Masterlube GTS	10W - 40	pnp GL	EU
Masterlube Synflow	5W - 50	ncp	EU
Masterlube Synflow Plus	5W - 40	ncp GL	EU
YACCO - France			
VX 1000	5W - 40	ncp GL	F
VX 500	10W - 40	ncp GL	F
YUKONG - Korea			
ZIP TOP	5W - 40	ncp GL	ROK
ZIP TOP	5W - 50	ncp	ROK

Distribution

areas:

Increasingly, high-quality engine oils which have been tested and approved by Porsche are being offered worldwide. To clarify where these oils can be obtained, the appropriate distribution area is listed as well. The abbreviations are as follows:

WW - Worldwide	MA - Morocco
EU - Europe	MAL - Malaysia
A - Austria	N- - Norway
AUS - Australia	NL - The Netherlands
B - Belgium	P - Portugal
BG - Bulgaria	PL - Poland
CDN - Canada	ROK - Republic of Korea
CH - Switzerland	S - Sweden
CZ - Czech Republic	UAE - United Arab Emirates
D - Germany	USA - United States of America
DOM - Dominican Republic	ZA - South Africa
E - Spain	ASI - Asia
F - France	F-E - Far East
GB - Great Britain and Northern Ireland	GUS - Soviet Union (former)
H - Hungary	M-A - Central America
HK - Hong Kong	N-A - North America
I - Italy	S-A - South America
J - Japan	SC - Scandinavia
L - Luxembourg	FIN - Finland