



## Maximize fuel economy and energy efficiency with breakthrough base stock performance

### SpectraSyn™ MaX PAO delivers an unprecedented balance of low viscosity and low volatility

#### Key benefits

Compared to traditional PAOs and mineral base stocks, SpectraSyn™ MaX PAO can help provide improved performance, including:



Enhanced fuel economy and energy efficiency



Excellent low-temperature properties for strong wear protection



Enhanced oxidative stability for long drain intervals



Superb lubricity for clean, efficient performance

Groundbreaking SpectraSyn™ MaX polyalphaolefin (PAO) is designed to provide enhanced fuel economy, energy efficiency and durability through an industry-leading balance of low viscosity and low volatility.

Thanks to its innovative molecular structure, this unprecedented base oil helps formulators achieve their fuel and energy goals in finished lubricants without sacrificing wear protection or lubricant life. In significant lab testing, SpectraSyn™ MaX PAO base stock demonstrates up to 0.6% improvement in fuel economy when compared to formulations containing only conventional PAO and Group III mineral oil base stocks.

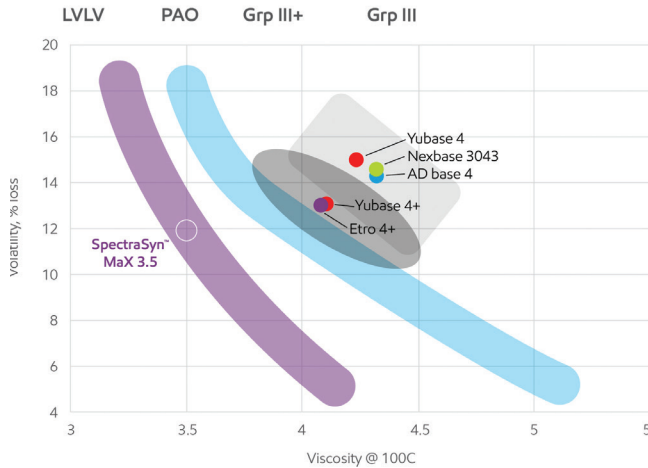
## 0.6% improvement in fuel economy

compared to conventional PAO and mineral oil base stocks

# Discover the improved performance of SpectraSyn™ MaX PAO

## Groundbreaking balance

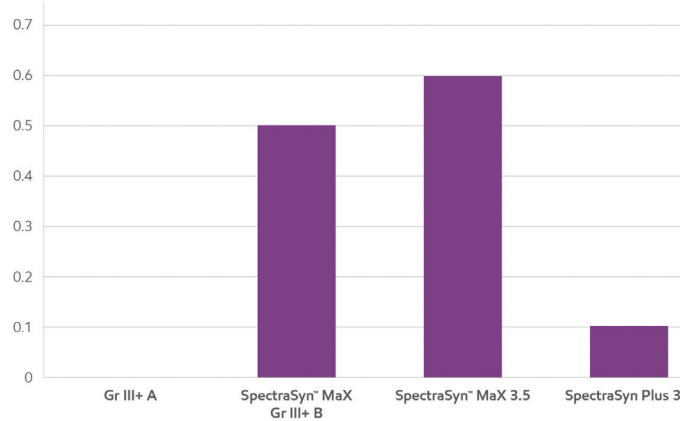
In Noack volatility tests, SpectraSyn MaX 3.5 PAO demonstrates outstanding balance of low viscosity and volatility compared to Group II/III and conventional PAO base stocks. This exceptional balance helps enable improved fuel economy and energy efficiency without sacrificing wear protection and long drain intervals.



## Improved fuel economy

Using a 0W-12 engine oil in Volkswagen fuel economy test PV1496, SpectraSyn MaX PAO demonstrates fuel economy improvement compared to a Group III+ and a low-viscosity conventional PAO.

VW fuel economy improvement – 0W-12



## Typical properties\*

Test	Unit	Test method	SpectraSyn™ MaX 3.5	PAO 2.X
Kinematic viscosity @ 100°C	cSt	D445	3.51	2.27
Kinematic viscosity @ 40°C	cSt	D445	14.26	7.94
Viscosity index	None	D2270	128	93
Noack volatility	wt%	D5800	11.6	8.8***
Pour point	°C	D5950**	-78	-78
CCS @ -35°C	cP	D5293	790	286
RPVOT (oxidation test)	Min	D2272B	102	30
Flash point COC (EV)	°C	D92	234	187

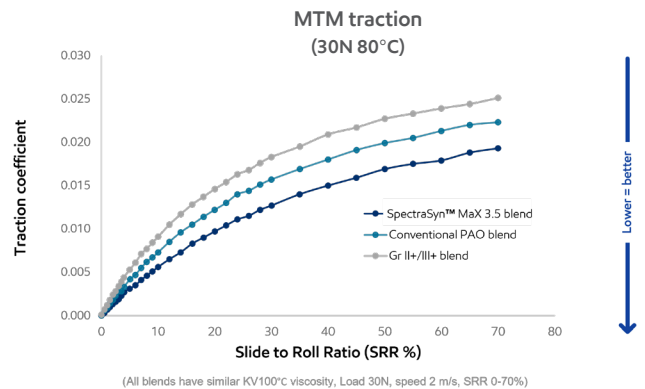
\*Typical properties; actual values will vary; not to be construed as specifications; sales specifications available at [exxonmobilchemical.com/synthetics](http://exxonmobilchemical.com/synthetics).

\*\*ASTM method D5950 only covers up to -66 °C

\*\*\*ExxonMobil method (D5800 mod), 200°C

## Greater energy efficiency

In MTM traction tests, SpectraSyn MaX 3.5 PAO demonstrates significantly lower friction coefficient/torque loss compared to Group II+/III+ and conventional PAO blends. This performance can enable improved energy efficiency.



Data from tests performed by or on behalf of ExxonMobil

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