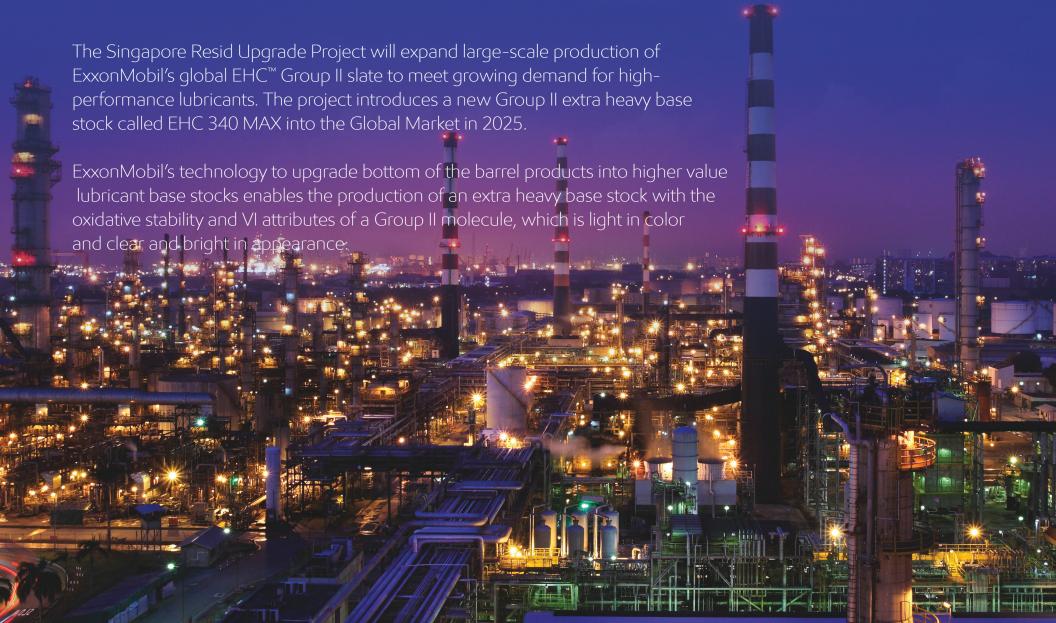


Breaking new ground – introducing a new Group III extra heavy base stock to meet both the need for better performance and efficient supply



Growing our EHC™ Base Stocks Slate to meet the world's growing needs

ExxonMobil Basestocks is committed to delivering an advanced product slate designed to help you formulate your products better.

Our EHC 340 MAX base stock is part of our global Group II base stock slate for formulation and qualification of automotive lubricants. With base oil interchange (BOI) and viscosity grade read (VGRA) capabilities, our EHC base stock slate offers broad blend coverage and simplified qualification testing across the globe.

With similar composition and performance to other EHC base stocks, EHC 340 MAX is part of the Global EHC series designed to help formulate a comprehensive viscosity range of industrial lubricants.

EHC 340 MAX containing lubricants show high oxidative stability, a wide temperature range of performance and light color. The outstanding low temperature performance and oxidative stability of EHC 340 MAX enables excellent performance of higher viscosity lubricants in a variety of applications. The high viscosity and viscosity index (VI) of EHC 340 MAX ideally position the product as a cost effective replacement to high viscosity synthetic base stocks, traditional thickeners and viscosity modifiers. The light color of EHC 340 MAX enables blended products with excellent aesthetic properties.



EHC 340 MAX[™]

- Group II
- · Superior low-temperature performance*
- · High saturates
- · Light color



EHC 340 MAX[™] expands the EHC Base Stock Slate

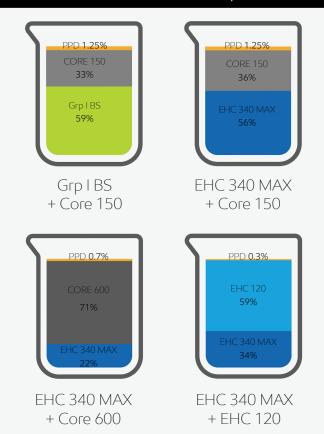
- Fully interchangeable with EHC Base Stocks Slate: EHC 45, EHC 50, EHC 65, EHC 110, EHC 120
- · Designed to cover most API, ACEA, and industrial lubricants
- Enables formulation of ISO 460 and higher, as well as SAE 25W-xx

Lower your AGO formulation costs

Formulate robust and competitive SAE 80W-90 API GL-5/MT-1 Gear Oils while improving Brookfield viscosity

- Ability to lower XH treat rate with co-base stock optimization by 5-50%
- Potential to lower PPD treat rate 50-75%
- Formulate with EHC or AP/E Core for maximum flexibility

Base Oil & PPD Composition



Composition %	Grp I Bright Stock & MN	EHC 340 MAX & Grp I MN	EHC 340 MAX & Grp I HN	EHC 340 MAX & Grp II HN
Group I BS	58.95			
EHC 340 MAX		55.7	22	33.6
Core 150	33.16	36.41		
Core 600			70.66	
EHC 120				59.46
Pour point depressant	1.25	1.25	0.7	0.3
Additive package	6.64	6.64	6.64	6.64
Measured properties	Grp I Bright Stock & MN	EHC 340 MAX & Grp I MN	EHC 340 MAX & Grp I HN	EHC 340 MAX & Gpr II HN
KV at 100oC, cSt	15.4	15.7	14.66	15.6
Brookfield viscosity at -26oC, cP	203,000	74,000	134,000	63,000
Pour point, oC	-27	-33	-30	-30

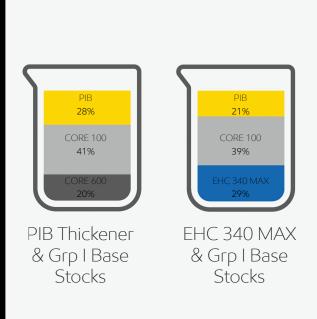
Dependent on additive chemistry and formulation approvals. ExxonMobil measurements with applicable additive packages. External factors, such as price and quality variation, VM diluent oil, etc., may cause deviations from these assessments; they are intended to be starting points for formulation evaluations. Lubricant blender is responsible for making their own assessment and obtaining appropriate approvals and licensing of all formulations.

Lower your AGO formulation costs

Formulate robust and competitive SAE 80W-140 API GL-5/MT-1 Gear Oils

- Potential to lower PIB treat rate by 25%
- Potential to lower PPD treat rate
- · Formulate with EHC or Core Base Stocks for maximum flexibility

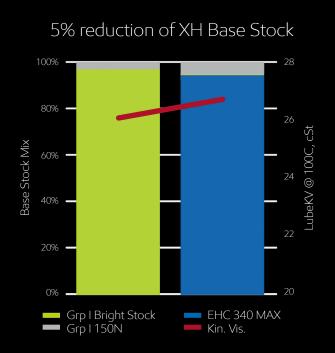
Base Oil & Thickener Composition

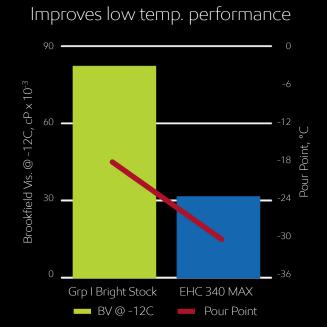


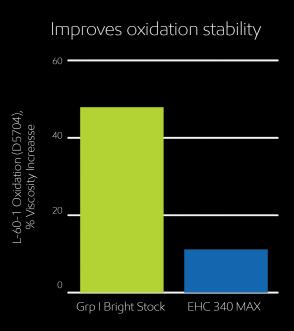
Composition %	PIB Thickener & Grp I Base Stocks	EHC 340 MAX & Grp I Base Stocks
PIB thickener	28	21
EHC 340 MAX		28.5
Core 100	40.71	39.3
Core 600	20.09	
Additive package	11.2	11.2
Measured properties	PIB Thickener & Grp I Base Stocks	EHC 340 MAX & Grp I Base Stocks
Measured properties KV at 100°C, cSt		
	Grp I Base Stocks	Grp I Base Stocks

Improve your AGO performance

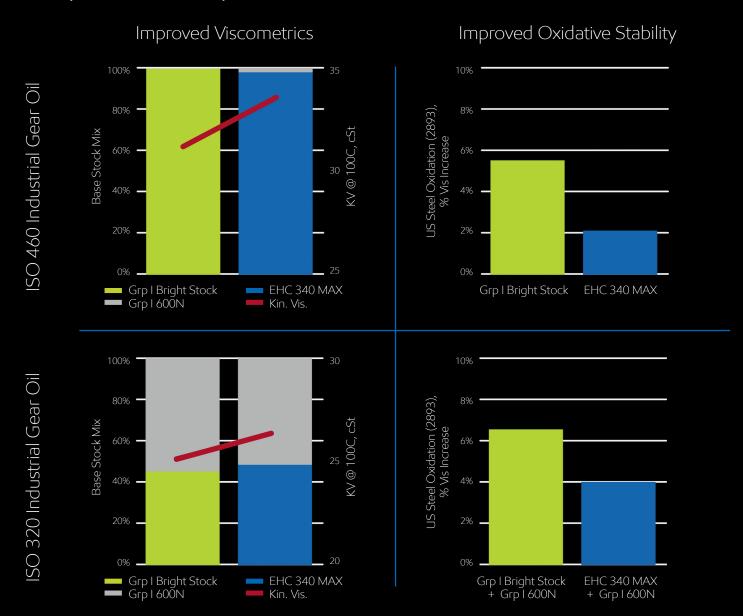
Formulate robust and competitive SAE 85W-140 API GL-5/MT-1 Gear Oils Enables formulators to address emerging performance needs







Improve your IGO performance



Adjustments to defoamer and demulsifier chemistry may be needed

Dependent on additive chemistry and formulation approvals. ExxonMobil measurements with applicable additive packages. External factors, such as price and quality variation, VM diluent oil, etc., may cause deviations from these assessments; they are intended to be starting points for formulation evaluations. Lubricant blender is responsible for making their own assessment and obtaining appropriate approvals and licensing of all formulations.

Expand performance of your mineral greases*

Potential improvements in:







Similar:













*Based on testing of ISO 220 and ISO 460, NLGI Grade 2 greases

EHC 340 MAX™ formulation value elements*

Application	EHC 340 MAX usage	Rebalance to lower thickener	Lower PPD usage	Longer lubricant life/ lower additive usage
Automotive gear oils				
Industrial gear oils				
Automotive engine oils (heavy grades)				
Grease				
Marine CLO				

^{*}Compared to Grp I Bright Stock

For more information, contact your local representative or visit our website **exxonmobil.com/basestocks**

ExxonMobil Petroleum & Chemical, BV Hermeslaan 2 1831 Machelen Brussels, Belgium

Email: EAMENewbusiness@exxonmobil.com

