

Enhanced Coverage with EHC™ Group II/II+ Base Stocks

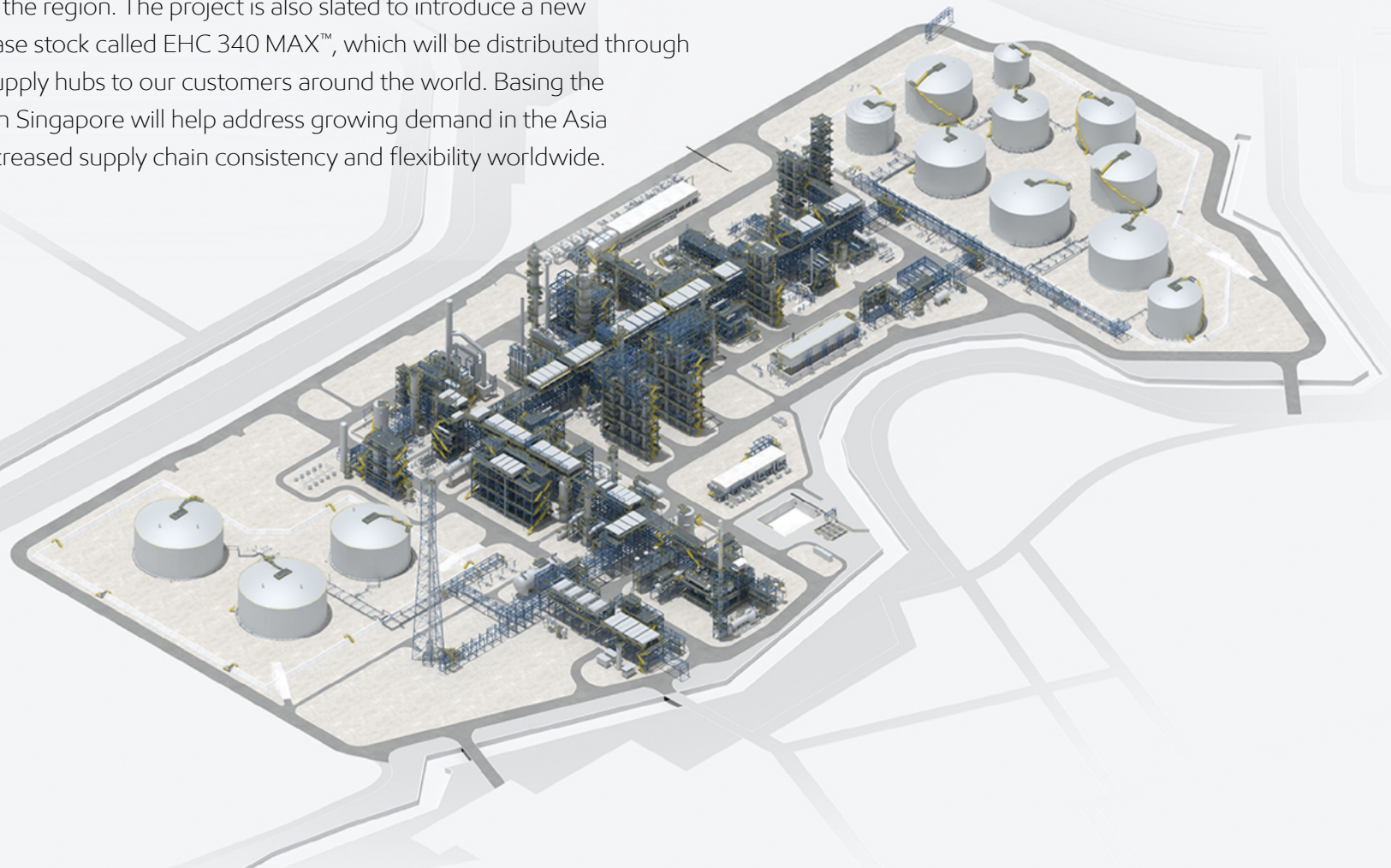
Expanding our business to grow with yours in Asia Pacific

ExxonMobil

Meeting your evolving needs – production expansion with enhanced coverage

The Singapore Resid Upgrade Project will expand large-scale production of ExxonMobil's global EHC™ Group II Base Stocks Slate to meet growing demand for high-performance lubricants.

The expansion will not only boost the accessibility of Group II base stocks for the Asia-Pacific market by increasing supplies of our EHC 50 base stock but also introduce our global heavy neutral EHC 120 base stock to the region. The project is also slated to introduce a new Group II extra heavy neutral base stock called EHC 340 MAX™, which will be distributed through our international network of supply hubs to our customers around the world. Basing the production of EHC 340 MAX in Singapore will help address growing demand in the Asia Pacific region and allow for increased supply chain consistency and flexibility worldwide.



Advantaged lubricants begin with advanced base stocks

ExxonMobil Basestocks is committed to delivering an advanced product slate designed to help you formulate better. Our Group II+ EHC™ 50 and Group II EHC 110, EHC 120 and EHC 340 MAX™ base stocks are part of our global Group II Base Stock Slate for efficient formulation of automotive lubricants.

EHC base stocks are smartly designed to be used in industrial and driveline applications where formulations can benefit from increased oxidation stability and superior low-temperature performance.* The addition of innovative EHC 340 MAX into the product range expands coverage to very high-viscosity lubricants up to ISO 460 with full Group II base stocks.

EHC 50, EHC 110, EHC 120 and EHC 340 MAX base stocks can be used together to meet the requirements of most high-quality API and ACEA automotive lubricants. This capability provides blenders with increased formulation flexibility and a broad blending range, helping to reduce or even eliminate the need for Group III base stocks in many cases.



EHC™ 50

- Group II+
- Excellent low-temperature performance
- Excellent volatility & high saturates
- Reduces Group III usage in SAE 5W-30 Heavy Duty and Passenger Car Engine Oils
- Formulates SAE 10W-xx engine oils with no Group III corrector base stocks



EHC™ 110

- Group II
- Good low-temperature performance



EHC™ 120

- Available in 2025 in Asia Pacific
- Group II
- Superior low-temperature performance
- Low volatility



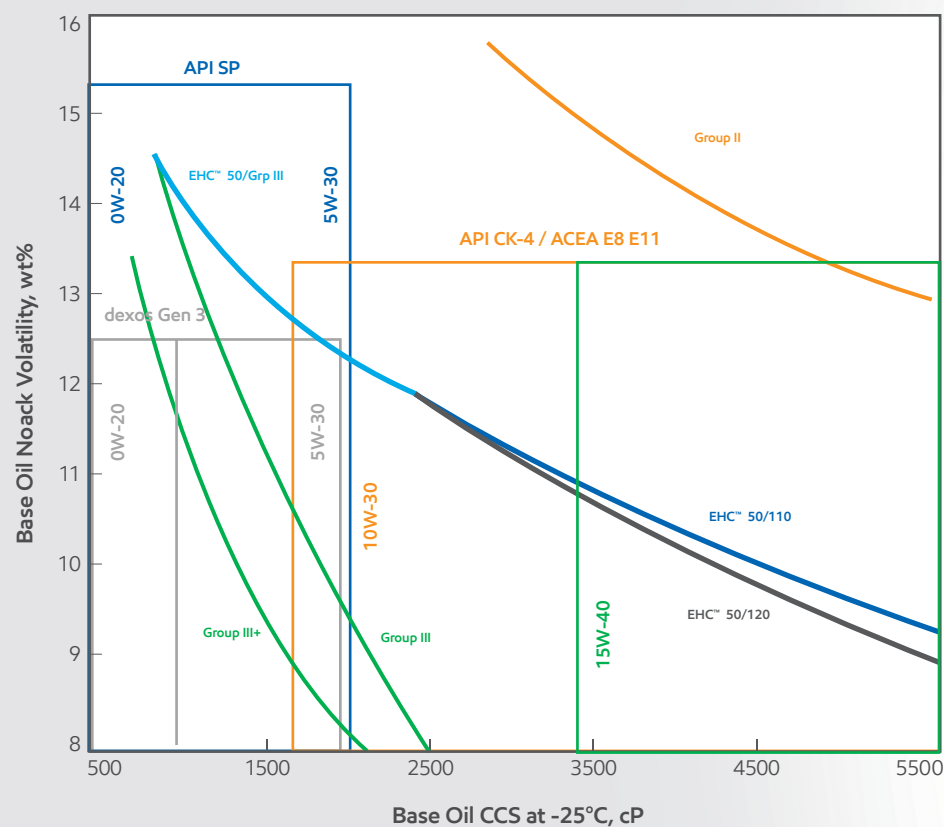
EHC 340 MAX™

- Innovative EHC 340 MAX in global formulations available in 2025 worldwide
- Fully interchangeable with EHC Base Stocks Slate: EHC 45, 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

*vs. Group I base stocks

Smart product design

EHC™ 50, EHC 110 and EHC 120 base stocks can be used together to meet the requirements of the most prevalent API and ACEA lubricants. This outstanding capability provides blenders with increased flexibility and a broader blending range, helping to reduce or eliminate the need for Group III base stocks in certain applications.

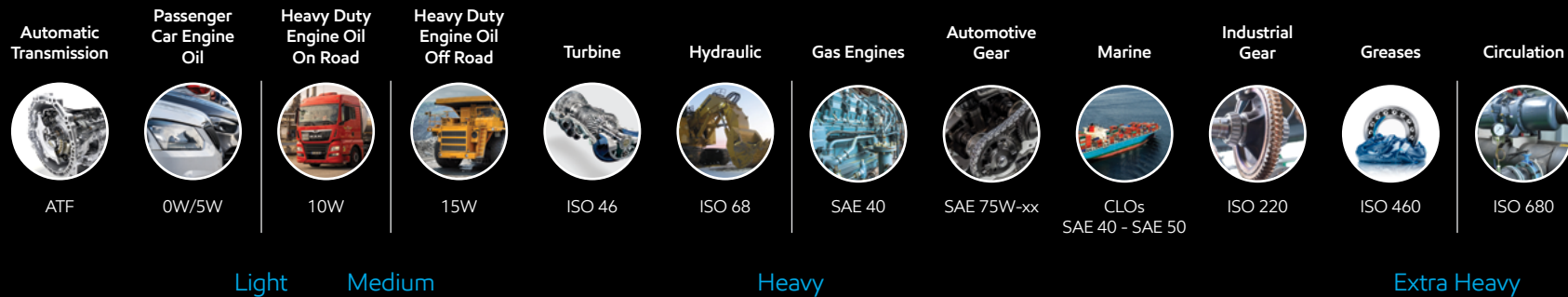


EM assessment of CCS and Noack properties of main base stocks blend currently available in AP compared to base oil requirements for specific engine oils.



EHC™ Group II/II+ base stocks comprehensive lubricants coverage

Modern manufacturing for scalable high-quality base stocks production to meet increasing efficiency needs across all sectors. With EHC 340 MAX™, the EHC Group II/II+ Base Stocks Slate provides extended coverage for superior performance in the entire viscosity range.



Group II/II+

EHC 50

EHC 110 EHC 120

EHC 340 MAX™

Group I
(equivalent nominal
viscosity)

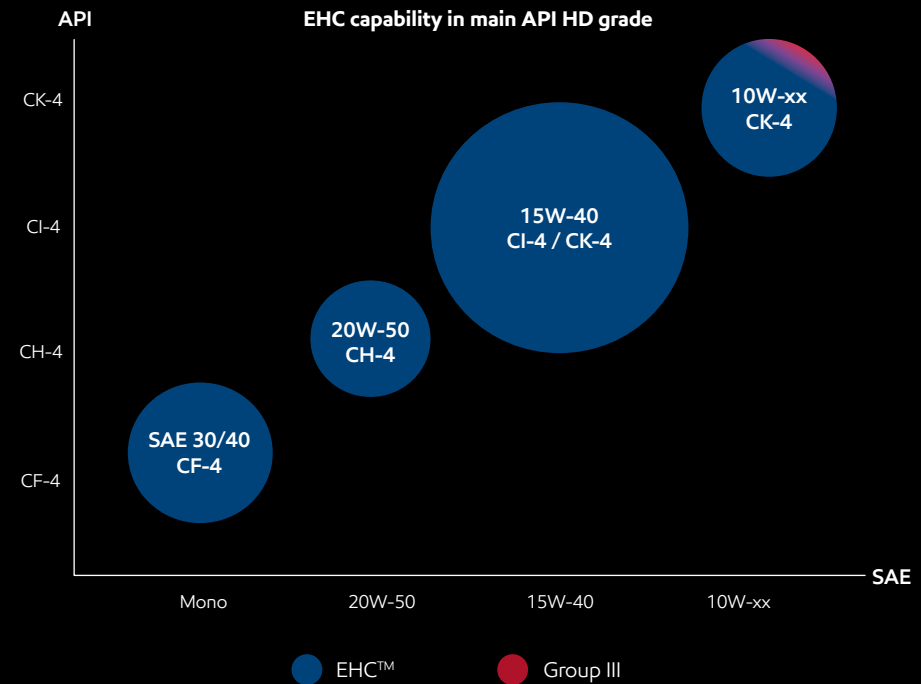
CORE 150

CORE 600

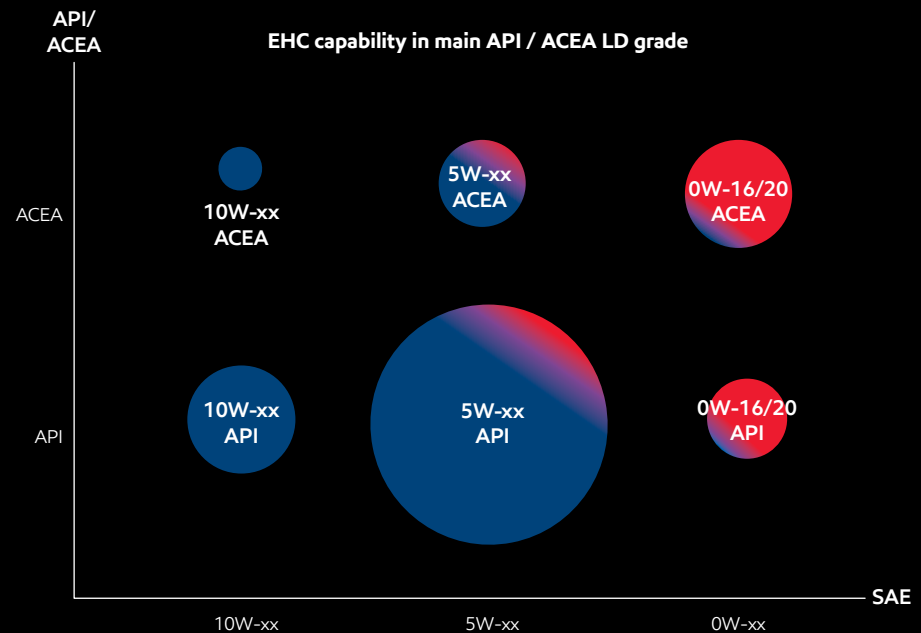
CORE 2500

EHC™ offers wide heavy duty formulation coverage

EHC 50, EHC 110 and EHC 120 base stocks can be used together to meet the requirements of most high-demand API and ACEA lubricants. This capability provides blenders with increased formulation flexibility and a broad blending range, helping to reduce or even eliminate the need for Group III base stocks in some cases.



EHC™ reduces Group III in light duty formulation



EM assessment based on commercially available formulations, subject to deviations. The lubricant blender is responsible for making own assessment and obtaining appropriate approvals and/or licensing of formulations.

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EHC™ offers broad driveline & industrial applications coverage

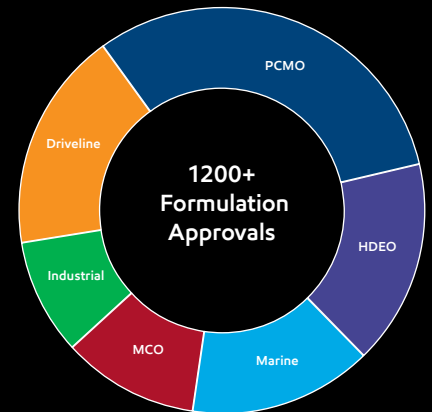
	Automatic Transmission Fluid	R&O Oils	Hydraulic	Universal Tractor Transmission Oil and Super Tractor Oil	Manual Transmission Fluid/Axle	Gas Engine Oil	Marine	Industrial Gear	Grease
									
	EHC 50		EHC 110 EHC 120			EHC 340 MAX™			
Viscosity Grade	6 - 7 cSt KV 100	ISO 32 to 46	ISO 32 to 68	10W, 15W SAE 30 to 60	75W-80/90 80W-90 85W-140 SAE 80/90/140	SAE 40	SAE 50 CLO SAE 30 to 40 TPEO SAE 20 to 40 SO	ISO 100 to 680	
OEM Approvals	Ford GM Global JASO	AGMA British Standard DIN Fives Cincinnati GEK Indian Standard JIS Siemens AG	DIN 51524 Bosch Rexroth China Standard Eaton Fives Cincinnati GM ISO JCMAS Parker Dennison SAE SEB Swedish Standard US Steel ZF	API Alison Case New Holland Ford J.I. Case John Deere Kubota Volvo Massey Ferguson	API GL-4/5 Daimler MAN SAE J2360 Scania Volvo ZF	INNIO- Waukesha	MAN WinGD	AGMA DIN David Brown Fives Cincinnati GM ISO Siemens Flender US Steel	



Got a lubricant formulation question? Ask **BOB**.

BOB is our Blend Optimization Book, a digital proprietary resource designed to help you find the right lubricant formulation to meet your evolving needs. It contains a comprehensive range of formulation approvals with ExxonMobil Basestocks, broadly covering key lubricant applications with major additive suppliers.

Today's lubricant market requires faster development and approval of more specialized formulations than ever before. BOB can help you meet these challenges.



BOB is designed to help you



Boost formulation
percentage



Simplify operational
logistics



Enable new market
opportunities



Improve operational
efficiency and speed
to market

ExxonMobil Basestocks global availability at your service

Our base stocks are available worldwide, delivered through our robust global network. We can meet your needs with our commitment to long-term, reliable Group I and Group II/II+ supply. Having multiple load points and storage facilities enables ExxonMobil to support lubricant formulators in their business continuity planning, and greatly reduces the risks of stockouts.



7 Asia-Pacific locations

1 transport
by marine

7 transport
by truck

Flexible solutions to all business sizes

ASIA- PACIFIC	Method of transportation	Group I	Group II/II+
Singapore	 	■	■
Mumbai, India			■
Taichang, China			■
Dongguan, China		■	■
Malaysia			■
Sydney, Australia		■	■
Melbourne, Australia		■	■

EUROPE, AFRICA, MIDDLE EAST	Method of transportation	Group I	Group II/II+
Fawley, UK		■	
Augusta, Italy		■	
Port-Jerome Gravenchon, France	 	■	■
Rotterdam, Netherlands			■
Rotterdam, Netherlands	 	■	■
Valencia, Spain	 	■	■
Hamburg, Germany	 		■
Vado Ligure, Italy		■	■
Durban, S. Africa		■	■

AMERICAS	Method of transportation	Group I	Group II/II+
Baton Rouge, LA	  	■	
Baytown, TX	  	■	■
Chicago, IL	 	■	■
New Orleans, LA	  	■	■
Deer Park, TX	  	■	■
Port Allen, LA	 	■	■
Altamira, Mexico	 	■	■
Teoloyucan, Mexico	 	■	■
Rio de Janeiro, Brazil	 	■	■

Why ExxonMobil Basestocks?

Manufactured in Asia Pacific and around the world supporting a unique global network

- Products designed to meet Asia Pacific lubricant manufacturers' needs
- Local production reducing production transportation impacts for key grades

Operational excellence

Our Brand and Product Integrity Management System aims to ensure that you receive:

- Products with consistent quality and performance in application
- Products that meet local market regulations
- A consistent experience across all products, services and customer touchpoints

We support this consistency through six foundational pillars:



Quality

You can rely on our products to be manufactured according to stringent specifications



Performance

We are committed to producing products that meet all stated performance properties



Representation

You can trust that what we say about our products is accurate and truthful



Regulatory Compliance

We are committed to complying with all applicable laws and regulations where we sell our products



Customer Experience

You can rely on us to provide what you need, where and when you need



Brand Identity

You can trust that our brands offer an assurance of quality products and services



For more information, contact your local
representative or visit our website

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