



aramco base oils: your complete source of products to propel your business further



Aramco: Your Trusted Partner for a more Sustainable Future in Base Oils

In the dynamic base oil market, Aramco is believed to be the global partner of choice for customers, delivering diversified products that enhance business resilience and reliability. Leveraging our lower upstream carbon intensity production, Aramco's technically advanced manufacturing sites provide a full range of high-quality base oils that could support customers in reaching their ambitions for the future.

Hussain Al-Qahtani Saudi Aramco Senior Vice President, Fuels



أرامكو السعودية: شريكك الموثوق لمستقبل أكثر استدامة في مجال زيوت الأساس

في سوق زيوت الأساس الديناميكي، تعتبر أرامكو السعودية الشريك العالمي المفضل للعملاء حيث توفر منتجات متنوعة تعزز من مرونة وموثوقية الأعمال. وبالاستفادة من كوننا من بين أقل الشركات على مستوى العالم من حيث انخفاض كثافة انبعاثات الكربون في عمليات التنقيب وإنتاج النفط الخام، توفر مجمعاتنا التصنيعية المتقدمة تقنياً مجموعة كاملة من زيوت الأساس عالية الجودة، التي تحمل العلامة التجارية لأرامكو السعودية، والتي قد يكون لها دور في دعم العملاء لتحقيق طموحاتهم المستقبلية.

حسين القحطاني

النائب الأعلى للرئيس لأعمال الوقود في أرامكو السعودية



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Luberef is known as a reliable supplier of high-quality base oils to customers operating across the Middle East, East Africa, India, Pakistan, Singapore and Europe. The strategically advantageous location of Luberef's refineries in Jeddah and Yanbu', in the Kingdom of Saudi Arabia, is combined with a consistent and reliable high quality supply of base oil, and an optimized grade mix to provide supply chain efficiencies to Luberef customers. Luberef's two production facilities produce appox. 1.4 million MT of Group I & II base oils and speciality products annually.





Motiva base oils are recognized for their quality and are key components in a broad spectrum of lubricants - including automotive, industrial, and functional fluid applications. Motiva's Port Arthur refinery is the site of the largest base oil plant in North America, operating three lube hydroprocessing units that use Motivapatented unit designs, to upgrade heavy gas oils into high-quality premium base oils. With a world-class sales and supply logistics team, Motiva will consistently fulfill your Group II and Group III needs in the Americas and around the world. Motiva's total capacity is 40,300 barrels per day (2.0 million tons per year).





S-OIL is one of the world's top base oil producers, leading in South Korea since its foundation in 1976 as the first local lube base oil refinery located in Ulsan. S-OIL's global presence has been successfully expanded into not only Asia but also Europe and North America, by utilizing its full range of product portfolio from Group I to Group III, with a daily production capacity of 44,700 barrels per day (2.2 million tons per year).

Introducing aramco base oils

For over 90 years, Saudi Aramco has been a reliable, trusted supplier of oil and gas to our customers across the world.

Through a series of joint ventures, we have been a major supplier of premium quality base oils around the world for over 40 years. Under the trusted company names of Luberef, Motiva, and S-OIL, we have collaborated with our customers to navigate market change, while delivering to them base oil solutions that meet their needs.



Three brand families for the products you trust

Aramco Base Oils is proud to present its high-performance, premium-quality base oils portfolio. Our broad portfolio of base oils will help you choose the right solution for whatever challenge you and your customers face so together you can innovate. Aramco Base Oils is a brand family, for the products you know, from the global name you trust.



aramco**dura**°

aramcoDURA® API Group I base oils are used in a wide range of applications, including: passenger car and heavy duty engine oils, gear oils, and transmission fluids, as well as in industrial applications such as hydraulic oils, turbine oils, compressor oils, and marine oils.

aramcoprima°

aramcoPRIMA API Group II base oils give you the power to formulate the majority of automotive and industrial lubricating oils for heavy duty diesel engine oils, as well as driveline, industrial hydraulic, and turbine oils.

aramcoultra*

aramcoULTRA API Group III base oils are used in applications that require high performance and efficiency, such as high-performance engine oils, automatic/manual transmission fluids, and long-life industrial fluids.



aramcodura®

aramcoDURA API Group I base oils are used in a wide range of applications, including: passenger car and heavy duty engine oils, gear oils, and transmission fluids, as well as in industrial applications such as hydraulic oils, turbine oils, compressor oils, and marine oils.

- Consistency in the quality of base oils
- High quality brightstock for marine, driveline, and heavy viscosity applications

aramcodura	Method	60	150
API Base Oil Category		Group V	Group I
Appearance	Visual	Clear & Bright	Clear & Bright
Kinematic Viscosity @ 40°C, cSt	ASTM D-445	6.5 - 9.0	28 - 31
Kinematic Viscosity @ 100ºC, cSt	ASTM D-445		Report
Viscosity Index	ASTM D-2270	≥ 60	≥ 101
Flash Point, COC, ºC	ASTM D-92	≥ 145	≥ 210
Pour Point, °C	ASTM D-5950	≤-10	≤-12
CCS viscosity @ -20°C, cP	ASTM D-5293		
Noack volatility, wt%	ASTM D-5800 (B)		
ASTM Color	ASTM D-1500	≤ L0.5	≤ L1.5
Manufacturing Site		Ulsan	*Yanbu / Jeddah

^{*} Consult your Luberef Representative for product specifications per manufacturing site

aramcodura	500	600	150BS	BS150
API Base Oil Category	Group I	Group I	Group I	Group I
Appearance	Clear & Bright	Clear & Bright	Clear & Bright	Clear & Bright
Kinematic Viscosity @ 40°C, cSt	91 - 101	113.0 - 119.0		Report
Kinematic Viscosity @ 100°C, cSt	Report		30.7 - 32.8	31 - 34
Viscosity Index	≥ 97	≥ 93	≥ 95	≥ 95
Flash Point, COC, ⁰C	≥ 227	≥ 245	≥ 288	≥ 290
Pour Point, °C	≤-6	≤-10	≤-10	≤-6
CCS viscosity @ -20°C, cP				
Noack volatility, wt%				
ASTM Color	≤ L2.5	≤ L2.5	≤ L5.0	≤ L4
Manufacturing Site	Jeddah	Ulsan	Ulsan	Yanbu



aramcoprima®

aramcoPRIMA API Group II base oils give you the power to formulate the majority of automotive and industrial lubricating oils for heavy duty diesel engine oils, as well as driveline, industrial hydraulic, and turbine oils.

- Provide optimized automotive engine oil formulations, ranging from 5W-20 to 20W-50
- Wide performance and viscosity grade coverage for North and South American/ Asian/ Middle East/European automotive engine oils.

Only aramcoPRIMA® 60 is not classified as API Group II.

aramco prima °	Method	60	60
API Base Oil Category		Group V	Group V
Appearance	Visual	Clear & Bright	Clear & Bright
Kinematic Viscosity @ 40°C, (cSt)	ASTM D-445	9.0 - 11.0	7.5 - 9.5
Kinematic Viscosity @ 100°C, (cSt)	ASTM D-445		
Viscosity Index	ASTM D-2270		≥ 60
Flash Point, COC, °C	ASTM D-92	≥170	≥ 150
Pour Point, °C	ASTM D-5950	<-33	≤-40
CCS viscosity @ -30°C, cP	ASTM D-5293		
CCS viscosity @ -25°C, cP	ASTM D-5294		
CCS viscosity @ -20°C, cP	ASTM D-5295		
Noack volatility, wt%	ASTM D-5800 (B)		
ASTM Color	ASTM D-1500		≤ L0.5
Manufacturing Site		Port Arthur	Ulsan

aramco prima °	70	1005	1505	500S
API Base Oil Category	Group II	Group II	Group II	Group II
Appearance	Clear & Bright	Clear & Bright	Clear & Bright	Clear & Bright
Kinematic Viscosity @ 40°C, (cSt)	Report	19 - 22	28.1 - 31.0	94.4 - 98.0
Kinematic Viscosity @ 100°C, (cSt)	2.8 - 3.3			
Viscosity Index	≥ 76	≥ 95	≥ 95	≥ 95
Flash Point, COC, ºC	≥ 175	≥ 202	≥ 204	≥ 232
Pour Point, °C	≤-30	≤-10	≤-10	≤-10
CCS viscosity @ -30°C, cP				
CCS viscosity @ -25°C, cP	Report			
CCS viscosity @ -20°C, cP	Report			
Noack volatility, wt%				
ASTM Color	≤ L0.5	≤ L1.0	≤ L1.5	≤ L2.0
Manufacturing Site	Yanbu	Ulsan	Ulsan	Ulsan

		aramcoPRIMA° slate		
aramco prima °	Method	100	110	150
API Base Oil Category		Group II	Group II	Group II
Appearance	Visual	Clear & Bright	Clear & Bright	Clear & Bright
Kinematic Viscosity @ 40°C, cSt	ASTM D-445	18.0 - 22.0	21 - 25	28.1 - 31.0
Kinematic Viscosity @ 100°C, cSt	ASTM D-445	≥ 3.8	Report	
Viscosity Index	ASTM D-2270	95 - 119	≥ 100	≥ 95
Flash Point, COC, °C	ASTM D-92	≥ 199	≥ 204	≥ 204
Pour Point, ⁰C	ASTM D-5950	≤-12	≤-15	≤-13
CCS viscosity @ -30°C, cP	ASTM D-5293			
CCS viscosity @ -25°C, cP	ASTM D-5294	≤ 1,550	Report	
CCS viscosity @ -20°C, cP	ASTM D-5295		Report	
Noack volatility, wt%	ASTM D-5800 (B)	≤ 19.0	≤ 17	
ASTM Color	ASTM D-1500	≤ L1.0	≤ L0.5	≤ L0.5
Manufacturing Site		Port Arthur	Yanbu	Ulsan

aramcoPRIMA° slate						
aramco prima °	220	230	500	600		
API Base Oil Category	Group II	Group II	Group II	Group II		
Appearance	Clear & Bright	Clear & Bright	Clear & Bright	Clear & Bright		
Kinematic Viscosity @ 40°C, cSt	40.0 - 46.0	42.5 - 46.0		107 - 120		
Kinematic Viscosity @ 100°C, cSt	≥ 6.1	Report	10.5 - 11.5	≥ 11.7		
Viscosity Index	≥ 95	≥ 100	≥ 100	≥ 95		
Flash Point, COC, ^o C	≥ 216	≥ 220	≥ 232	≥ 250		
Pour Point, ⁰C	≤-12	≤-15	≤-13	≤-12		
CCS viscosity @ -30°C, cP						
CCS viscosity @ -25°C, cP		Report				
CCS viscosity @ -20°C, cP	≤ 3,900	Report				
Noack volatility, wt%	≤ 13.0	≤8				
ASTM Color	≤ L1.0	≤ L0.5	≤ L0.5	≤ L1.0		
Manufacturing Site	Port Arthur	Yanbu	Ulsan / Yanbu	Porth Arthur		



aramcoultra

- aramcoULTRA 4
- aramcoULTRA 6
- aramcoULTRA® 8

aramcoULTRA API Group III base oils are used in applications that require high performance and efficiency, such as high performance engine oils, automatic/manual transmission fluids, and long-life industrial fluids.

- aramcoULTRA[®] 2
- aramcoULTRA 3

These grades of aramcoULTRA are not classified as API Group III.

aramcoultra	Method	2	3
API Base Oil Category		Group II	Group II
Appearance	Visual	Clear & Bright	Clear & Bright
Kinematic Viscosity @ 100°C, cSt	ASTM D-445	1.9 - 2.4	3.0 - 3.5
Viscosity Index	ASTM D-2270	≥ 100	≥ 100
Flash Point, COC, ^o C	ASTM D-92	≥ 150	≥ 180
Pour Point, ⁰C	ASTM D-5950	≤-25	≤-20
CCS viscosity @ -30°C, cSt	ASTM D-5293		
Noack volatility, wt%	ASTM D-5800 (B)		
ASTM Color	ASTM D-1500	L0.5	L0.5
Manufacturing Site		Ulsan	Ulsan

		aramcoULTRA® slate		
aramco ultra °	Method	4	6	8
API Base Oil Category		Group III	Group III	Group III
Appearance	Visual	Clear & Bright	Clear & Bright	Clear & Bright
Kinematic Viscosity @ 100°C, cSt	ASTM D-445	4.0 - 4.5	5.8 - 6.2	7.0 - 7.5
Viscosity Index	ASTM D-2270	≥ 120	≥ 120	≥ 120
Flash Point, COC, ⁰C	ASTM D-92	≥ 210	≥ 220	≥ 240
Pour Point, ⁰C	ASTM D-5950	≤-15	≤-15	≤-10
CCS viscosity @ -30°C, cSt	ASTM D-5293	≤ 1,600	Report	
Noack volatility, wt%	ASTM D-5800 (B)	≤ 15.5	≤ 8.5	
ASTM Color	ASTM D-1500	L0.5	L0.5	L0.5
Manufacturing Site		Porth Arthur / Ulsan	Porth Arthur / Ulsan	Ulsan

Meeting API and ACEA requirement

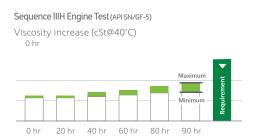
Interchangeable and linked group II base oils

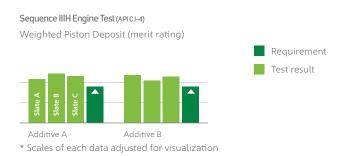
In accordance with API and ACEA protocols, Saudi Aramco has successfully completed test programs that demonstrated the interchangeability and linage between Group II base oils from our global manufacturing sites. The extensive testing programs covers API SN/GF-5, API CJ-4 together with ACEA A3/B4, E7 and E9 automotive engine in addition to demonstration in industrial and gear oils applications.

aramcoPRIMA API Licensabilty and OEM approval

The aramcoPRIMA base stock slate has completed the test program to support the API CK-4, ACEA A3/B4, E7, E9, and key North American and European Original Equipment manufacturers in commonly used SAE grades like 10W-30, 10W-40 and 15W-40 for heavy duty diesel engines. These formulations are now available for lubricant marketers to use to obtain API License and OEM approvals.

Automotive Engine Tests



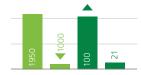


aramcoPRIMA HDD Test Program



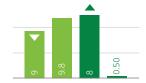
Oxidation Height A/cm

Volvo T-13 Aramco PRIMA in 15W-40



Sludge Rating, merit

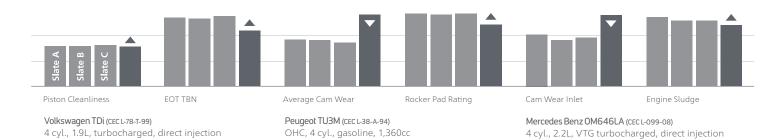
Cummins ISM Aramco PRIMA in 10W-30



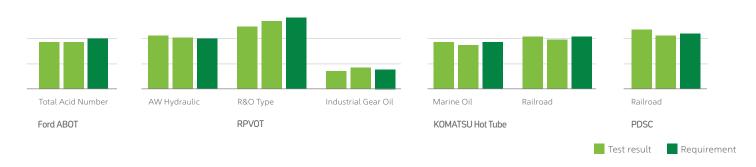
Engine Sludge, merit

OM50LA Aramco PRIMA in 10W-30

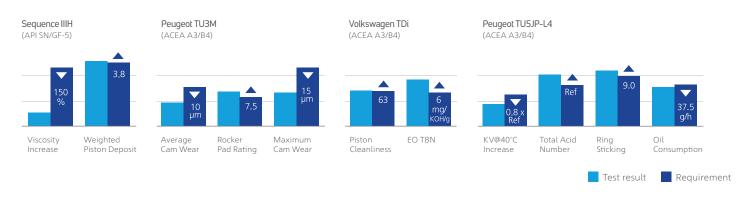
European Engine Test (ACEA A3/B4)



Driveline & Industrial Oxidation Tests



The Group II base oils show satisfactory performance in various API and ACEA engine tests across a number of metrics including oxidation, anti-wear, piston cleanliness, and sludge formation resistance using suitable additive technologies.



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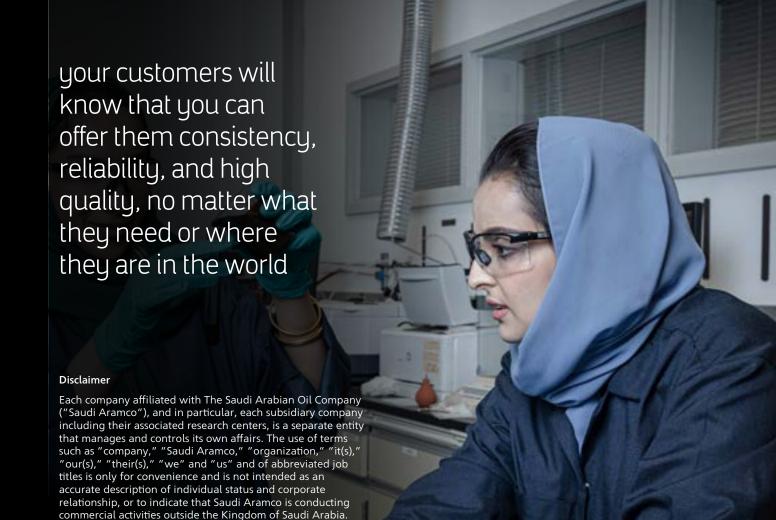
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selling more base oils to the market than any other company on earth aramco base oils

