



Get ready for a new base oils era from the world's largest crude oil supplier.


aramco base oils

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aramco 
base oils

aramco **base oils**
product catalog



aramco base oils

your complete source
of products to propel
your business further

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introducing aramco base oils

For over 80 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.



Luberef supplies international oil companies operating across the Middle East, East Africa, India and Pakistan. The strategically advantageous location of Luberef's refineries in Jeddah and Yanbu', 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.

Motiva Base Oils are recognized for their quality and are a key component 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 which operates three lube hydroprocessing units that use Motiva-patented unit designs to upgrade heavy gasoils into high quality premium base oils. With a world-class sales and supply logistics teams, Motiva will consistently fulfill your Group II and Group III needs in the Americas and around the world.

S-OIL has positioned one of the world's top class base oil producers while leading in South Korea since its foundation in 1976 as the first local lube base oil refinery. 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 base oil product portfolio from Group I to Group III with a daily production capacity of 44,700 barrels.

Three new 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 new brand family, for the products you know, from the global name you trust.

aramcoDURA®

API Group I

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

aramcoPRIMA®

API Group II

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 & South American/Asian/Middle East/European automotive engine oils

aramcoULTRA®

API Group III

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

aramcoDURA®

aramcoDURA 150
 aramcoDURA 500
 aramcoDURA BS150
 aramcoDURA 60¹
 aramcoDURA 600¹
 aramcoDURA 150BS¹

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

Group I

aramcoDURA 150

aramcoDURA 500

aramcoDURA BS150

Properties	Method	Typical	Typical	Typical
Density @ 15.6 C, kg/L	D 4052	Report	Report	0.894
Color, ASTM	D 1500	1.5	2.5	4.0
Flash Point, °C, COC	D 92	210	227	282
Flash Point, °C, PMCC	D 93	200+	210+	232
Furfural Content, ppm	M - 1414	5	5	5
Pour Point, °C	D 97	-12	-6	-6
Kinematic Viscosity @ 40°C, cSt	D 445	28 - 31	91 - 101	Report
Kinematic Viscosity @100°C, cSt	D 445	Report	-	31.32
Viscosity Index	D 2270	101	97	95
Conradson Carbon Residue, wt%	D 189	0.1	0.1	0.7
Sulfur Content, wt%	D 4294	1.0	1.3	1.3
Neutralization No, mg KOH/gm	D 664	0.05	0.05	0.05
Copper Strip Corrosion, 100°C, 3 hrs	D 130	1a	1a	1a
Ash, wt%	D 482	0.01	0.01	-
Appearance	Visual	C & B	C & B	C & B

Group I

aramcoDURA 60¹

aramcoDURA 600¹

aramcoDURA 150BS¹

Properties	Method	Typical	Typical	Typical
Density @ 15.6 C, kg/L	D 4052	0.8751	0.8791	0.8929
Color, ASTM	D 1500	L 0.5	L 0.5	L 1.0
Flash Point, °C, COC	D 92	149	259	316
Flash Point, °C, PMCC	D 93			
Furfural Content, ppm	M-1414			
Pour Point, °C	D 97	-20	-14	-14
Kinematic Viscosity @ 40°C, cSt	D 445	7.9213	117	488.6
Kinematic Viscosity @100°C, cSt	D 445	2.192	12.49	31.85
Viscosity Index	D 2270	71	98	96
Conradson Carbon Residue, wt%	D 189	<0.01	0.01	0.2
Sulfur Content, wt%	D 4294	<10	<100	<100
Total Acid Number, mgKOH/gm	D 664	<0.01	<0.01	<0.01
Copper Strip Corrosion, 100°C, 3 hrs	D 130	1b	1b	1b
Ash, wt%	D 482			
Appearance	Visual	C & B	C & B	C & B

1 - Ex Ulsan

aramcoPRIMA[®]

aramcoPRIMA 100

aramcoPRIMA 110

aramcoPRIMA 150

aramcoPRIMA 220

aramcoPRIMA 230

aramcoPRIMA 500¹

aramcoPRIMA 500²

aramcoPRIMA 600

aramcoPRIMA 100S²

aramcoPRIMA 150S²

aramcoPRIMA 500S²

aramcoPRIMA DFF

aramcoPRIMA 60²

aramcoPRIMA 60³

aramcoPRIMA 70

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.

These grades of aramcoPRIMA are not classified as API Group II. They are commonly used for non engine oil applications.

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

Process oils		aramcoPRIMA DFF	aramcoPRIMA 60 ²	aramcoPRIMA 60 ³	aramcoPRIMA 70
Properties	Method	Typical	Typical	Typical	Typical
Appearance	Visual	C&B	C&B	C&B	C&B
Kinematic Viscosity @ 40°C, cSt	D 445	3.7	8.74	10.6	11.4
Kinematic Viscosity @ 100°C, cSt	D 445		2.32	2.6	2.9
Viscosity Index	D 2270		67		83
Saturates, wt%	D 2007		>99		
Sulfur, wt ppm	D 2622	1	<10	<10	5
Distillation	D 86				
IBP, °C		255	279		
FBP, °C		327	367		
Pour Point, °C	D 97	-27	< -40	-35	-30
Density @ 15°C, Kg/L	D 4052		0.8700		
Saybolt Color	D 156	+30	+30	+30	
Color ASTM	D 1500		L 0.5	L0.5	0.5
Flash Point COC, °C	D 92	100	≥150	≥170	
Copper Corrosion 100°C 3hrs	D 130		1b		
Total Acid Number, mgKOH/gm	D 974		<0.01		
Aromatic, wt%	D 2007	0.5	<10		1
Aniline Point, °C	D 611	91	87.2		

Group II		aramcoPRIMA 100	aramcoPRIMA 110	aramcoPRIMA 150
Properties	Method	Typical	Typical	Typical
Appearance	Visual	C&B	C&B	C&B
Kinematic Viscosity @ 40°C, cSt	D 445	20.5	23.3	29.7
Kinematic Viscosity @ 100°C, cSt	D 445	4.17	4.6	5.2
Viscosity Index	D 2270	105	113	105
Saturates, wt%	D 2007		98	99
Sulfur, wt ppm	D2622	<10	10	< 10
Distillation	D 5800	23.0	14.0	15.8
IBP, °C	D 5293		900	1,620
FBP, °C	D 5293	1,238	1,500	2,760
Pour Point, °C	D 97	-15	-18	-18
Density @ 15°C, Kg/L	D 2983	12,500	12,100	
Saybolt Color	D 4052	0.8495	0.8510	0.8590
Color ASTM	D 156		+30	+30
Flash Point COC, °C	D 1500	L 0.5	L 0.5	L 0.5
Copper Corrosion 100°C 3hrs	D 92	207	224	218
Total Acid Number, mgKOH/gm	D 130		1a	1b
Aromatic, wt%	D 974		0.01	< 0.01
Aniline Point, °C	D 2007		1	<1

Group II		aramcoPRIMA 220	aramcoPRIMA 230	aramcoPRIMA 500 ¹	aramcoPRIMA 500 ²	aramcoPRIMA 600	aramcoPRIMA 100S ²	aramcoPRIMA 150S ²	aramcoPRIMA 500S ²
Properties	Method	Typical	Typical	Typical	Typical	Typical	Typical	Typical	Typical
Appearance	Visual	C&B	C&B	C&B	C&B	C&B	C&B	C&B	C&B
Kinematic Viscosity @ 40°C, cSt	D 445	42.3	43.5	84.5	96.4	109.4	20.94	30.47	95.86
Kinematic Viscosity @ 100°C, cSt	D 445	6.5	6.65	10.75	11.3	12.0	4.236	5.189	11.24
Viscosity Index	D 2270	104	105	112	104	98	107	101	96
Saturates, wt%	D 2007		98.5	98	99		>90	>90	>90
Sulfur, wt ppm	D2622	<10	2	1	2	<25	<10	<100	<100
Noack Volatility, wt% (Procedure B)	D 5800	11.0	8	2.0	6.9	2.0			
CCS Viscosity @ -20°C, mPa-s	D 5293	3,080	3,100	8,300	14,550				
CCS Viscosity @ -25°C, mPa-s	D 5293		5,500	16,000	26,000				
Pour Point, °C	D 97	-15	-18	-16	-18	-15	-15	-12	-14
Brookfield @ -40°C	D 2983								
Density @ 15°C, Kg/L	D 4052	0.8640	0.8625	0.8620	0.8720	0.8741	0.854	0.863	0.8731
Saybolt Color	D 156		+30		+30				
Color ASTM	D 1500	L 0.5	L 0.5	L0.5	L0.5	L 0.5	L 0.5	L 0.5	L 0.5
Flash Point COC, °C	D 92	226	230	250	240	263	210	212	258
Copper Corrosion 100°C 3hrs	D 130		1b	1b	1b		1b	1b	1b
Total Acid Number, mgKOH/gm	D 974		0.01	0.02	< 0.01		<0.01	<0.01	<0.01
Aromatics, wt%	D 2007		1.5	2	< 1		<2	<2	<2

aramcoULTRA[®]

aramcoULTRA[®] 4²
 aramcoULTRA[®] 4³
 aramcoULTRA[®] 6²
 aramcoULTRA[®] 6³
 aramcoULTRA[®] 8

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

aramcoULTRA[®] 2
 aramcoULTRA[®] 3

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

Properties	Method	aramcoULTRA [®] 2	aramcoULTRA [®] 3
		Typical	Typical
Appearance	Visual	C&B	C&B
Kinematic Viscosity @ 40°C, cSt	D 445	7.62	14.0
Kinematic Viscosity @ 100°C, cSt	D 445	2.25	3.38
Viscosity Index	D 2270	103	115
Saturates, wt%	D 2007	>99	>99
Sulfur, wt ppm	D2622	1	1
Noack Volatility, wt% (Procedure B)	D 5800		
CCS Viscosity @ -30°C, mPa-s	D 5293		
Pour Point, °C	D 97	-36	-27
Density @ 15°C, Kg/L	D 4052	0.8300	0.8323
Saybolt Color	D 156	30	30
Color ASTM	D 1500	L0.5	L0.5
Flash Point COC, °C	D 92	158	202
Copper Corrosion 100°C 3hrs	D 130	1b	1b
Total Acid Number, mgKOH/gm	D 974	<0.01	<0.01
Aromatics, wt%	D 2007	<0.1	<0.1

2 - Ex Ulsan | 3 - Ex Port Arthur

Group III

 aramco**ULTRA** 4²

 aramco**ULTRA** 4³

 aramco**ULTRA** 6²

 aramco**ULTRA** 6³

 aramco**ULTRA** 8

Properties	Method	Typical	Typical	Typical	Typical	Typical
Appearance	Visual	C&B	C&B	C&B	C&B	C&B
Kinematic Viscosity @ 40°C, cSt	D 445	19.7	20.4	32.54	32.4	41.10
Kinematic Viscosity @ 100°C, cSt	D 445	4.27	4.40	6.04	5.9	7.1
Viscosity Index	D 2270	124	126	134	125	134
Saturates, wt%	D 2007	>99		>99		>99
Sulfur, wt ppm	D2622	1	<10	<1.0	<10	<1.0
Noack Volatility, wt% (Procedure B)	D 5800	14.7	14.4	6.4	7.6	4.0
CCS Viscosity @ -30°C, mPa-s	D 5293	1,500	1,500	3,850	4,050	6,300
Pour Point, °C	D 97	-20	-20	-16	-15	-14
Density @ 15°C, Kg/L	D 4052	0.8350	0.8360	0.8398	0.8400	0.8425
Saybolt Color	D 156	30		30		30
Color ASTM	D 1500	L0.5	L0.5	L0.5	L0.5	L0.5
Flash Point COC, °C	D 92	220	220	240	230	250
Copper Corrosion 100°C 3hrs	D 130	1b		1b		1b
Total Acid Number, mgKOH/gm	D 974	L0.01		L0.01		L0.01
Aromatics, wt%	D 2007	<0.1	<0.1	<0.1		<0.1

meeting API and ACEA requirements

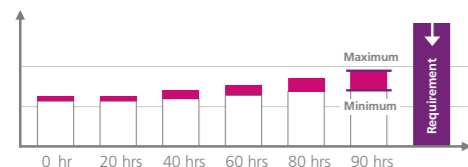
Interchangeable and linked group II base oils

In accordance with API and ACEA protocols, Saudi Aramco has successfully completed test programs that demonstrated the interchangeability and linkage between Group II base oils from our global manufacturing sites. The extensive testing programs covered API SN/GF-5, API CJ-4 and ACEA A3/B4 automotive

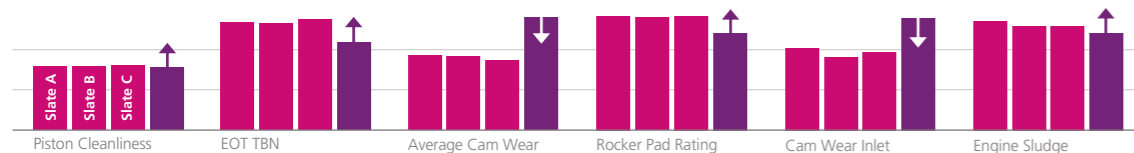
Automotive Engine Tests

Sequence IIHH Engine Test (API SN/GF-5)

Viscosity increase (cSt@40°C)



European Engine Test (ACEA A3/B4)



Volkswagen TDi (CEC L-78-T-99)

4 cyl., 1.9L, turbocharged, direct injection

Peugeot TU3M (CEC L-38-A-94)

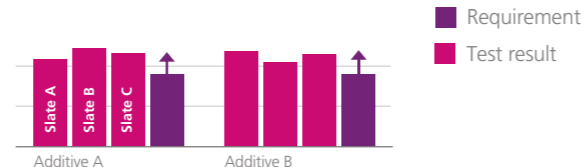
OHC, 4 cyl., gasoline, 1,360cc

Mercedes Benz OM646LA (CEC L-099-08)

4 cyl., 2.2L, VTG turbocharged, direct injection

Sequence IIHH Engine Test (API CJ-4)

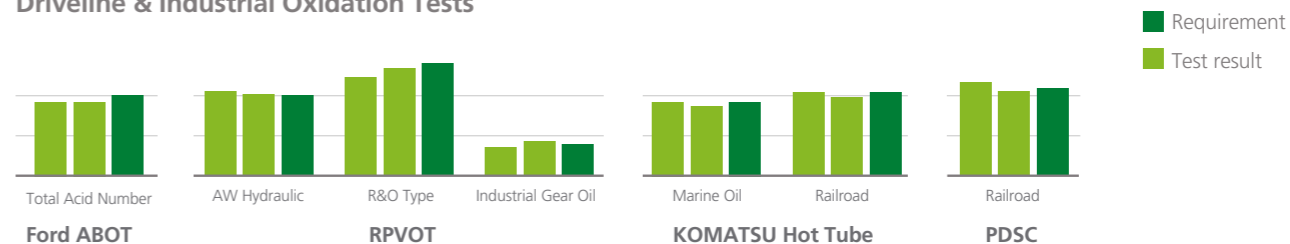
Weighted Piston Deposit (merit rating)



*) Scales of each data adjusted for visualization

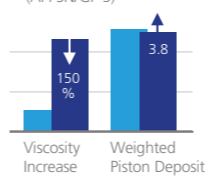
engine oils together with demonstration in industrial and gear oils applications. Engine tests to meet ACEA E7 and E9 are currently underway with completion expected Q1 2019.

Driveline & Industrial Oxidation Tests

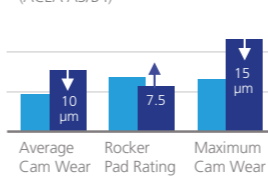


The Group II base oils show satisfactory performance in various API and ACEA engine tests across a number of metrics including oxidation, anti-wear, piston cleanliness, and sludge formation resistance using suitable additive technologies.

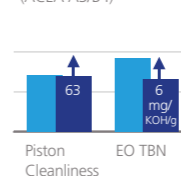
Sequence IIHH (API SN/GF-5)



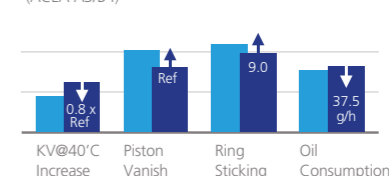
Peugeot TU3M (ACEA A3/B4)



Volkswagen TDi (ACEA A3/B4)



Peugeot TU5JP-L4 (ACEA A3/B4)



“ We are very excited to launch our base oils brands and intend to streamline our base oils strategy; capitalizing on Saudi Aramco’s vast experience in the oil industry, its renowned reputation of high-quality products and its prominent position worldwide in meeting customer’s needs.

We will also build on the tremendous base oil industry experience within our affiliates, which spans several decades.”

Said Al-Hadrami
Vice President
Saudi Aramco’s International Operations



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your customers will know that
you can offer them consistency,
reliability, and high quality, no
matter what they need or where
they are in the world

