
U-Lube
PREMIUM LUBRICANTS
Product Catalogue
Automotive, Industrial &
Speciality Lubricants

About Us

United Lube Oil Company, Ltd. (UNILUBE) owns and operates an oil refinery with modern technology for the production of high quality base oil. The plant is situated in Jubail Industrial City, Kingdom of Saudi Arabia and its commercial operation commenced in the year 2002.

Over the years, the Company is continuously progressing in its business operation, and to safeguard its position in the market, UNILUBE diversified its operation and established Lubricant Blending and Packaging Plant in the year 2009. UNILUBE aims to meet the markets' demands of base oil, and lubricants for automotive & industrial sectors.

Quality is the prime objective of UNILUBE. All company activities meet the Quality standards set forth by internationally recognized institutions. UNILUBE is certified by PME, SASO, ISO 9001 and ISO 14001. The company manufactured lubricants meet the standards of American Petroleum Institute (API), and presently working to get the Saudi Arabia Standards Organization certification.

UNILUBE is proud of its highly qualified staff and sophisticated equipments & technologies to ensure quality in all activities and products. UNILUBE aims to further develop more in this area through specialized training programs. Moreover, UNILUBE is working to advance and excel in its activities through a Research Center in collaboration with highly specialized third parties in the field of product development

UNILUBE Lubricants Blending Plant operation was developed in short span of time, and will continue to sustain its position in lubricants market. The vital strength of the company comes from the integration of operation and production processes, as the raw materials of the Blending Plant are partly produced by its own refinery. This ensures capability and stability in meeting the markets' needs.

UNILUBE considers its customers as partners; accordingly, the company is committed to them. This commitment includes: quality products, pricing schedule consistent with prevailing world markets, and prompt delivery.

UNILUBE aims to capture its share in the base oil and lubricants markets. Every effort shall be made to meet customers' satisfaction in order to achieve this goal that will guarantee positive returns to customers and to the company shareholders as well.

Quality Policy

Unilube is committed to provide high quality products (Base oils, Solvents, Extracts and Lubricants) to its customers to their complete satisfaction.

We shall achieve our motto of 'Customer satisfaction' by,

- Following the 'Quality Management System' with objectives planned and periodic review for continual improvement.

- Maintain a system to understand the customer requirements followed by proper execution plan to achieve the same.

- Employing innovative processing techniques, best work practices and continuous quality monitoring.

- Providing all necessary resources to maintain quality of the products and timely delivery.

- Impart proper training for the continuous improvement of personnel and have the job done right the first time and every time.

Environmental Policy

We, at Unilube, are committed to environment protection through:

• Conservation of natural resources by promoting recycling and

• Waste Minimizations in all our business activities.

Especially we shall,

1. Improve our environmental performance through innovative techniques, best work practices and technology upgradation.

2. Carry out all our activities complying with applicable environmental laws and regulations and strive to go beyond.

3. Conserve water, oil, electrical energy and other natural resources through promotion of recovery, recycle and waste minimization techniques.

4. Ensure safe storage and transportation of raw materials and finished products.

5. Enhance environmental awareness in the society through education and training.

ABDULLAH AL-MASHHAF
President

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POWER

SAE 40 - API : SG

GASOLENE ENGINE OIL

DESCRIPTION

U Lube Power is premium quality engine oil formulated with selected base oil and highest quality performance additives which provides good Oxidation Stability, dispersant & detergent characteristics to meet API SG level .It is high quality mono grade gasoline engine oil for turbocharged or normally aspirated gasoline engines, working under severe conditions.

APPLICATION

- U Lube Power is recommended for naturally aspirated or turbocharged engines in light vehicles, Passenger cars & Commercial vehicles.
- This oil may also be used in general lubrication of various equipments.

BENEFITS

- Controls the corrosive effect of combustion products.
- Stable under heavy load and higher temperature.
- Effective lubrication film on the sides of the engines.
- Does not form foam and oil loss is minimum.

SPECIFICATIONS

API: SG

TYPICAL PROPERTIES

Properties	Results	Method
SAE Viscosity Grade	40	----------
Density @ 15° C, g/ml	0.888	ASTM D-1298
Flash Point, COC, °C	240	ASTM D-92
Pour Point, °C	-21	ASTM D-97
TBN mg KOH/g	7	ASTM D-2896
Viscosity @ 100°C, cSt	13	ASTM D-445
Viscosity Index	96	ASTM D-2270

POWER MAX

SAE 20W50 - API: SL/CF; ACEA: A3B4

GASOLENE ENGINE OIL

DESCRIPTION

U-Lube Power Max is new generation of automotive oils based on revolutionary concepts meeting the performance level required by today's gasoline engines. Blended with premium quality additives to give exceptional performance in most severe operating conditions. It provides excellent resistance to Oxidation wear and corrosion.

APPLICATION

• U-Lube Power Max is recommended for gasoline and most diesel engine passenger and commercial vehicles of naturally aspirated or turbo charged engines which requires API SL/CF and earlier categories.

• It meet the performance requirements of most European, Japanese and American Passenger Car Manufacturers.

BENEFITS

- Superior anti-wear and anti-scuffing properties.
- Excellent corrosion protection of engine parts.
- Stable under heavy load and higher temperatures.
- Good to operate in all four seasons of the year.

SPECIFICATIONS

API: SL/CF; ACEA: A3B4

TYPICAL PROPERTIES

Properties	Results	Method
SAE Viscosity Grade	20W50	----------
Density @ 15° C, g/ml	0.886	ASTM D-1298
Flash Point, COC, °C	230	ASTM D-92
Pour Point, °C	-24	ASTM D-97
TBN, mgKOH/g	8	ASTM D-2896
Viscosity @ 100°C, cSt	17.5	ASTM D-445
Viscosity Index	130	ASTM D-2270

POWER MAX (SEMI-SYNTHETIC)

SAE 10W40 - SL/CF, A3B4

GASOLENE ENGINE OIL

DESCRIPTION

U Lube Power Max Semi-Synthetic Multi-grade engine oil is a new generation of automotive oils based on revolutionary concepts meeting the performance level required by today's gasoline and diesel engines blended with premium quality additives to give exceptional performance in most severe operating conditions.

APPLICATION

- Recommended for high power super charged gasoline and diesel engines of passenger cars, buses and light trucks.

BENEFITS

- Easy cold start -up.
- Superior anti-wear and anti-scuffing properties.
- Excellent corrosion protection of engine parts.
- Stable under heavy load and higher temperatures.

SPECIFICATIONS

API: SL/CF, ACEA:A3B4; MB:229.1

TYPICAL PROPERTIES

Properties	Results	Method
SAE Viscosity Grade	10W40	----------
Density @ 15° C, g/ml	0.878	ASTM D-1298
Flash Point, COC, °C	210	ASTM D-92
TBN, mg KOH/g	8	ASTM D-2896
Viscosity @ 100°C, cSt	13.5	ASTM D-445
Viscosity Index	135	ASTM D-2270

POWER MAX (FULL SYNTHETIC)

SAE 5W30 - API SL/CF: ACEA A3/B4

GASOLENE ENGINE OIL

DESCRIPTION

U-LUBE POWER MAX is formulated with fully synthetic oil based with highly advance additives package having low sulfur, phosphorous and less ash content. The high technology additive provides good thermal stability, oxidation resistance & high power in engine.

APPLICATION

U-LUBE POWER MAX 5W30 fully synthetic motor oil is recommended for all types of modern vehicles, including high Performance with or without turbo charged, super charged gasoline and diesel multi valve fuel injected engines found in passenger cars, SUVs, light vans and trucks.

BENEFITS

- Out standing protection against rust, wear and sludge formation.
- Good thermal stability and oxidation resistance.
- Faster circulation in engine, giving good startup performance.
- Maintain engine cleanliness.
- Superior protection of exhaust emission control system.
- Outstanding low temperature fluidity.
- Immediate lubrication in cold condition during engine startup.

SPECIFICATION

API : SL/CF, MB 229.3, VW 502.00/505.00

PRODUCT CHARACTERISTICS:

Test Parameter	Units	Typical Results	Method
Appearance	----	C&B	Visual
Density @ 15°C	g/ml	0.865	ASTM D-1298
Viscosity @ 40°C	mm^2/s	60	ASTM D-7042
Viscosity @ 100°C	mm^2/s	10.5	ASTM D-7042
Viscosity Index	----	167	ASTM D- 2270
Flash Point (COC)	°C	220	ASTM D-92
Pour Point	°C	-39	ASTM D-97
Base Number	mg of KOH/gr	8	ASTM D-2896

TRACK 4T (SEMI - SYNTHETIC)

SAE 10W40; API: SL; JASO: MA

GASOLENE ENGINE OIL

DESCRIPTION

U-Lube Semi-Synthetic Track 4T is formulated with selected premium synthetic and high quality base oils and enriched with advanced technology additives specially developed for 4 Stroke motorcycles offering excellent engine protection and reliable clutch and gearbox operation.

APPLICATION

- Recommended for four season 4 stroke oil is specially designed for leading motorcycle manufacturer for both Gasoline and Diesel Engines.
- Tractors, cement mixtures and trowels, skid-steers, excavators, compressors, Pumps, lifts and maintenance equipments.

BENEFITS

- Excellent For Transmission Systems.
- Superior wear Protection. Resists Heat and Reduces Oil Consumption.
- Excellent Engine protection; Reliable smooth clutch and gearbox operation.
- Higher fuel efficiency.

SPECIFICATIONS

API: SL,SH,SG (Gasoline) CD,CF (Diesel); JASO:MA

TYPICAL PROPERTIES

Properties	Results	Method
Appearance	Clear	Visual
Density @ 15° C, g/ml	0.870	ASTM D-1298
Flash Point, COC, °C	210	ASTM D-92
TBN, mg KOH/g	7	ASTM D-2896
Pour Point, °C	-33	ASTM D-97
Viscosity @ 100°C, cSt	13.5	ASTM D-445
Viscosity Index	140	ASTM D-2270

TURBO

SAE 40, 50 - API : CF; ACEA:E2

DIESEL ENGINE OIL

DESCRIPTION

It is designed for heavy duty on-road and off-road turbo charged or naturally aspirated diesel engines operating under high load conditions. Formulated with selected base oils and Superior Quality additives which requires excellent detergent, dispersant, good oxidation stability and maintain good anti-wear and anti-corrosion for engine.

APPLICATION

- It is recommended for use in turbo charged and naturally aspirated diesel engine for heavy duty Trucks, commercial Vehicles, Passenger cars and Pickups.
- And also recommended for use in agricultural and construction equipments, operating in fleet and construction business.

BENEFITS

- Sludge free oil environment in engines.
- Provides uniform oil layer at the sides of engines.
- High quality detergent and dispersant oils bringing economy and quality together.
- Good Anti-wear Properties.

SPECIFICATIONS

API: CF/SF; ACEA:E2

TYPICAL PROPERTIES

Properties	Results		Method
SAE Viscosity Grade	50	40	
Density @ 15° C, g/ml	0.895	0.888	ASTM D-1298
Flash Point, COC, °C	240	240	ASTM D-92
Pour Point, °C	-12	-18	ASTM D-97
TBN mg KOH/g	11	11	ASTM D-2896
Viscosity @ 100°C, cSt	18	14.5	ASTM D-445
Viscosity Index	99	99	ASTM D-2270

TURBO PLUS

SAE 15W40 - API: CF/CF4; ACEA: B3E2

DIESEL ENGINE OIL

DESCRIPTION

It is formulated with selected high quality refined mineral base oils and enriched with advanced technology additives to provide optimum control over deposits in severe service and control against wear, rust and corrosion. Meets and exceeds API's CF for on-road and off-road applications.

APPLICATION

- Four season multi grade diesel engine oil is specially developed for high output trucks, buses, passenger cars and vans.
- Recommended for use in agricultural and construction equipments where it requires.

BENEFITS

- Excellent starting in all four seasons of the year.
- Provides good Oxidation stability.
- Splendid detergents keep the engine parts clean.
- Sludge free oil environment in engine.

SPECIFICATIONS

API: CF/CF4; ACEA: B3E2; MB 228.0

TYPICAL PROPERTIES

Properties	Results	Method
SAE Viscosity Grade	15W40	-------
Appearance	Clear	Visual
Density @ 15° C, g/ml	0.884	ASTM D-1298
Flash Point, COC, °C	220	ASTM D-92
Pour Point, °C	-30	ASTM D-97
TBN, mg KOH/g	10	ASTM D-2896
Viscosity @ 100°C, cSt	13.5	ASTM D-445
Viscosity Index	135	ASTM D-2270

TURBO PLUS

SAE 15W40 - API: CI-4; ACEA: E2B3

DIESEL ENGINE OIL

DESCRIPTION

It is formulated with advanced technology additives providing maximum protection against sludge and ash deposits. Meet and exceed API's CF, CH-4 and CI-4 for on-road and off-road applications. It is suitable for all turbocharged engines operating under severe conditions in all climates.

APPLICATION

- Recommended for use in heavy duty diesel and gasoline engines.
- Recommended for use in wide range of heavy duty applications including trucking, mining, construction, Industrial and agricultural industries.

BENEFITS

- Turbo Plus multi -grade oils specially designed for excellent Engine starting in all four seasons.
- Provides good anti-wear, anti-oxidation, anti-foam, anti-rust and anti-corrosive properties.
- Splendid detergents keep the engine parts clean and improved drain intervals.
- Excellent Control sludge formation and long life for both Diesel and Gasoline Engine.

SPECIFICATIONS

API: CI-4; ACEA: E2B3; MB 228.1;MB 229.1:MAN 271;VOLVO VDS-2;MACK EO-M PLUS; ALLISON C-4;CATERPILLAR ECF1;ZF TE-ML07C/4C

TYPICAL PROPERTIES

Properties	Results	Method
SAE Viscosity Grade	15W40	--------
Density @ 15° C, g/ml	0.884	ASTM D-1298
Flash Point, COC, °C	225	ASTM D-92
Pour Point, °C	-30	ASTM D-97
TBN, mg KOH/g	11	ASTM D-2896
Viscosity @ 100°C, cSt	15.4	ASTM D-445
Viscosity Index	135	ASTM D-2270

MARINA

(Marine Diesel Engine Oil)

DIESEL ENGINE OIL

DESCRIPTION

U-LUBE MARINA is high quality, alkaline marine diesel engine oil ,formulated from paraffinic base oil with combination of selected additives package providing load carrying ability, good detergency and excellent oxidation stability. It provides high alkalinity in service when high sulfur fuel is used.

APPLICATION

U-LUBE MARINA is recommended to use in high output tank piston marine diesel engine on heavy residual fuel up to 2 - 3% sulfur content. It is suitable for 4 stroke and medium diesel engine.

BENEFITS

- Excellent TBN retention properties.
- Provide excellent thermal stability.
- Excellent protection from sludge and deposit on piston and ring.
- Excellent protection against rust and corrosion.
- Excellent cleaning properties of piston, cylinders and ports.
- Excellent oxidation resistance to extend the engine life period.

SPECIFICATIONS

API : CF

PRODUCT CHARACTERISTICS:

Test Parameter	Units	Typical Results				Method
SAE Grade	------	30	40	30	40	--------
Appearance	------	C&B	C&B	C&B	C&B	Visual
Density @ 15°C	Kg/m^3	0.890	0.902	0.898	0.903	ASTM D-4052
Viscosity @ 40°C	mm^2/s	103	148	104	149	ASTM D-7042
Viscosity @ 100°C	mm^2/s	11.7	15	11.7	15	ASTM D-7042
Viscosity Index	-	98	101	98	100	ASTM D- 2270
Flash Point (COC)	°C	240	251	240	250	ASTM D-92
Pour Point	°C	-18	-12	-12	-12	ASTM D-97
Base Number	mg of KOH/gr	30	30	40	40	ASTM D-2896

GAMMA

GEAR OIL - SAE 90, 140 - API: GL5

GEAR OIL

DESCRIPTION

It is blended with selected high quality mineral oil with specially selected superior quality ash less sulphur and phosphorous additive package to meet and exceed API's GL-5 specifications. These gear oils are used in all type of hypoid gear drives in automotive vehicles and industrial applications, operating at severe load and high velocities.

APPLICATION

- It is recommended for automotive hypoid gear differentials operating under high speed and/ or low speed, high torque conditions, and heavy duty, non-synchronized manual transmission and trans axle to use in Passenger cars, vans, light and heavy trucks.

BENEFITS

- Splendid wear protection of light and moderate duty gears and differentials.
- Excellent thermal and oxidation stability ensure longer service life.
- Very good seal compatibility.
- Provides good protection of parts against corrosion.

SPECIFICATIONS

API: GL5; MIL-L2105D; DAIMLER BENZ 235.0

TYPICAL PROPERTIES

Properties	Results		Method
SAE Viscosity Grade	90	140	---------
Density @ 15° C, g/ml	0.888	0.890	ASTM D-1298
Flash Point, COC, °C	215	230	ASTM D-92
Pour Point, °C	-18	-15	ASTM D-97
Viscosity @ 100°C, cSt	14	25	ASTM D-445
Viscosity @ 40°C, cSt	137	335	ASTM D-445
Viscosity Index	99	97	ASTM D-2270

GAMMA

GEAR OIL - SAE 90, 140, 85W140 - API: GL4

GEAR OIL

DESCRIPTION

It is blended with selected high quality mineral oil with specially selected superior quality ash less sulphur and phosphorous additive package to meet and exceed API's GL-4 specifications.

APPLICATION

- These gear oils are used in hypoid gear drives in automotive vehicles and industrial applications, operating at severe load and high velocities.
- These oils may also be used in manual transmission of passenger cars, vans, light and heavy trucks.

BENEFITS

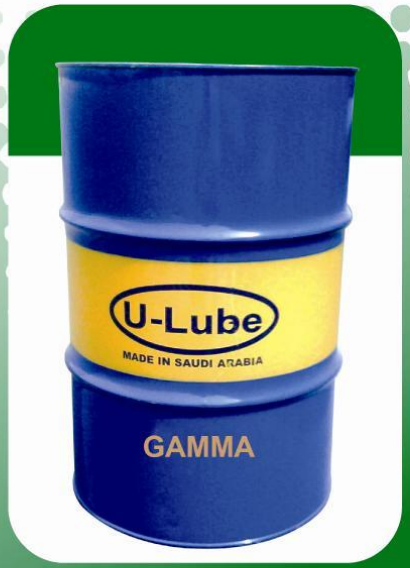
- It has good resistance to oxidation, pitting, rust and corrosion.
- Splendid wear protection of light and moderate duty gears and differentials.
- Highly effective de-foament.
- Good lubrication without channelling at low temperatures.
- Provides good protection of parts against corrosion.

SPECIFICATIONS

API: GL4; MIL-L2105D; DAIMLER BENZ 235.0

TYPICAL PROPERTIES

Properties	Results			Method
SAE Viscosity Grade	90	140	85W140	--------
Density @ 15° C, g/ml	0.888	0.890	0.907	ASTM D-1298
Flash Point, COC, °C	215	230	226	ASTM D-92
Pour Point, °C	-18	-15	-21	ASTM D-97
Viscosity @ 100°C, cSt	16	25	26	ASTM D-445
Viscosity @ 40°C, cSt	166	340	360	ASTM D-445
Viscosity Index	96	96	96	ASTM D-2270



HEPTA

ISO VG: 32 (10W), 37, 46, 68, 100, 150

HYDRAULIC OIL AW

DESCRIPTION

It is supreme performance hydraulic oil formulated from wax-free hydrocarbon base fluids combined with a carefully engineered super-stabilised additive system for use in both high and low pressure industrial and mobile hydraulic systems. It provides excellent anti-wear and anti-foam protection in hydraulic and circulation systems.

BENEFITS

- Excellent viscometric and low temperature flow properties.
- Good wear protection in transmission systems.
- Very good seal compatibility.
- Superior protection against rusting and corrosion

APPLICATION

It is general purpose transmission oils to be used in hydraulic systems of equipments and machinery operating at severe and normal conditions. It may also be used as general purpose lubricants.

SPECIFICATIONS

Denison : HF-0; HF-2

TYPICAL PROPERTIES

ISO VG Grade	32(10W)	37	46	68	100	150	Method
Density @ 15° C, g/ml	0.875	0.875	0.875	0.878	0.880	0.882	ASTM D-1298
Flash Point, COC, °C	200	200	210	210	210	220	ASTM D-92
Pour Point, °C	-21	-21	-21	-27	-27	-27	ASTM D-97
Viscosity @ 100°C, cSt	5.36	5.85	6.74	8.6	11.1	14.8	ASTM D-445
Viscosity @ 40°C, cSt	32	37	46	68	100	150	ASTM D-445
Viscosity Index	100	99	98	97	96	96	ASTM D-2270

ULTRA

TYPE A

AUTOMATIC TRANSMISSION FLUID

DESCRIPTION

It is formulated with selected high quality refined mineral base oils and enriched with advanced technology additives. Meets performance requirements of General Motors Type A Suffix A (TASA), ATF is designed for most Power transmission and hydraulic systems to include passenger car and truck automatic transmission, industrial, agricultural, and off -highway.

APPLICATION

- Recommended for passenger car and truck automatic transmission where it requires ATF Type A.
- It can also be used in industrial, agricultural, and off -highway applications where ATF Type A is recommended.

BENEFITS

- Good low temperature fluidity, resistance to oxidation and high thermal stability.
- Less maintenance, keeps downtime to a minimum.
- Provides good wear protection and corrosion characteristics.
- Does not form foam.

SPECIFICATIONS

General Motors Type A Suffix A

TYPICAL PROPERTIES

Properties	Results	Method
ATF TYPE	TYPE A	--------
Density @ 15° C, g/ml	0.878	ASTM D-1298
Flash Point, COC, °C	170	ASTM D-92
Viscosity @ 40°C, cSt	40	ASTM D-445
Viscosity @ 100°C, cSt	7.0	ASTM D-445
Viscosity Index	135	ASTM D-2270

ULTRA

DEXRON III

AUTOMATIC TRANSMISSION FLUID

DESCRIPTION

It is formulated with selected high quality refined mineral base oils and enriched with advanced technology additives. Meets performance requirements of various on and off-road vehicles which specify the Dexron III, IID, or II, Allison C-4, Ford Mercon, CAT TO-2 are recommended.

APPLICATION

- It is designed for most Power transmission and hydraulic systems to include passenger car and truck automatic transmission.
- It can be used in industrial, agricultural, and off -highway applications where it requires Dex III.

BENEFITS

- Longer transmission, torque converter, hydraulic system life.
- Excellent low temperature fluidity. Excellent resistance to oxidation and high thermal stability.
- Less maintenance, keeps downtime to a minium.
- Provides good wear protection and durability of friction characteristics.

SPECIFICATIONS

Dexron III, Dexron IID, Ford MERCON, Allison C-4, CAT TO-2 ; Voith G607;Sperry Vickers; Denison: Sundstrand

TYPICAL PROPERTIES

Properties	Results	Method
ATF TYPE	Dexron III	-------
Density @ 15° C, g/ml	0.866	ASTM D-1298
Flash Point, COC, °C	190	ASTM D-92
Pour Point, °C	-42	ASTM D-97
Viscosity @ 40°C, cSt	37	ASTM D-445
Viscosity @ 100°C, cSt	7.8	ASTM D-445
Viscosity Index	188	ASTM D-2270

COMPACT

COMPRESSOR OIL - ISO 32, 46, 68, 100

DESCRIPTION

It is formulated with selected base oils with selected high quality additive to provide excellent Protection against rust, corrosion and deposit formation. It has excellent oxidation resistance and thermal stability at high temperatures to minimize Sludge and varnish formation and provide long service life.

APPLICATION

- Recommended for single stage and multistage reciprocating compressors temperatures up to 220°C.
- It is developed to use in industrial steam turbines, axial & centrifugal gas compressors, rotary air & centrifugal refrigeration compressors, hydraulic and circulating oil system, and many other industrial applications.

BENEFITS

- It Protects system components against rust and corrosion.
- It has excellent water-separating Properties to minimize the formation of emulsion.
- Excellent air release Anti-foaming properties.
- Excellent demulsification ability to protect components from wear and rust.
- Wide operating temperature range.

SPECIFICATIONS

Parker-Hannifin France HF-1; Cincinnati Machine P-38, P-54, P-55, P-57; DIN 51524 Part1, BS 489

TYPICAL PROPERTIES

ISO VG Grade	32	46	68	100	Method
Density @ 15° C, g/ml	0.875	0.875	0.878	0.880	ASTM D-1298
Flash Point, COC, °C	200	210	210	210	ASTM D-92
Pour Point, °C	-21	-21	-27	-27	ASTM D-97
Viscosity @ 100°C, cSt	5.36	6.75	8.6	11.1	ASTM D-445
Viscosity @ 40°C, cSt	32	46	68	100	ASTM D-445
Viscosity Index	100	99	97	96	ASTM D-2270

THERMA

HEAT TRANSFER OIL - ISO VG: 22, 32, 46, 68

DESCRIPTION

U-Lube Therma Heat Transfer oil is excellent performance Heat Transfer oil, formulated with high quality base oils having good thermal stability and low sludge forming tendency with selected additives that provides detergency and oxidation resistance for maximum heat transfer efficiency and for long service life. It is designed for use in both open and closed liquid-phase heat transfer systems operating at bulk oil temperatures.

APPLICATION

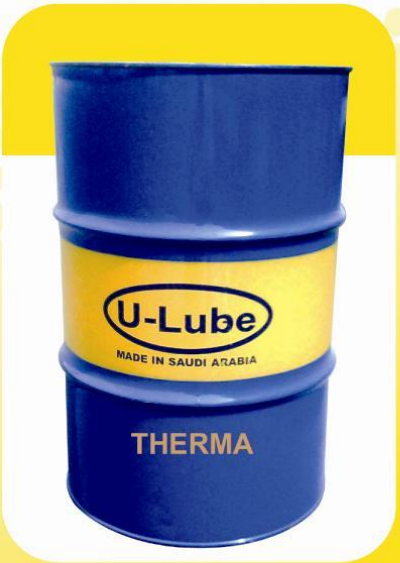
- Recommended to use in both open and closed liquid-phase heat transfer systems.
- Direct and indirect-fired hot oil heaters in refineries.
- Moulding and extrusion equipment.
- Hot corrugation and gluing.

BENEFITS

- Excellent thermal and oxidation stability at high temperatures.
- Excellent sludge deposit control and heat transfer efficiency.
- Superior protection against rusting and corrosion.
- Long service life.

TYPICAL PROPERTIES

Properties	Results				Test Method
ISO VG	**22**	**32**	**46**	**68**	----------
Density @ 15° C, g/ml	0.870	0.875	0.875	0.878	ASTM D-1298
Flash Point, COC, °C	200	210	210	220	ASTM D-92
Pour Point, °C	-21	-18	-18	-18	ASTM D-97
Viscosity @ 40°C, cSt	22	32	46	68	ASTM D-445
Viscosity @ 100°C, cSt	4.3	5.36	6.74	8.68	ASTM D-445
Viscosity Index	100	100	99	97	ASTM D-2270



GAMMA (I)

EP GEAR OIL - ISO 150; 220; 320

DESCRIPTION

U-Lube Gamma Extreme Pressure Gear oil is excellent quality gear Lubricants specially formulated with world class additives to provide high load carrying capacity, intended for Gear boxes, Spiral Bevel Axles, operating under severe conditions of high speed/shock load service.

APPLICATION

- Industrial gear units requiring an extreme pressure type of oil.
- Industrial equipment such as helica, bevel, spur and planetary gears.
- Automotive & Manual transmission of heavy equipment, trucks & buses.

BENEFITS

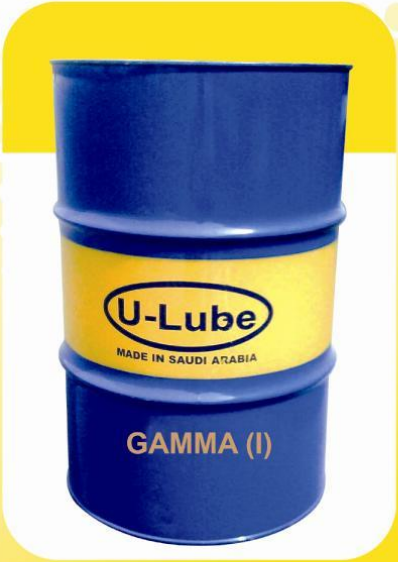
- High thermal and Oxidation stability.
- Excellent load-carrying capacity.
- Excellent anti-wear; Rust and Corrosion resistance.
- Good Seal Compatibility.
- Improved lubrication of gear box bearings.

SPECIFICATIONS

AGMA 9005 -EO2; DIN51517 Part 3; ISO 12925 - CKC/CKD

TYPICAL PROPERTIES

SAE Grade	150	220	320	Test Method
Density @ 15° C, g/ml	0.895	0.898	0.902	ASTM D-1298
Viscosity @ 40°C, cSt	150	220	320	ASTM D-445
Viscosity @ 100°C, cSt	14.8	19.2	24.3	ASTM D-445
Viscosity Index	98	98	97	ASTM D-2270
Flash Point, COC, °C	250	254	258	ASTM D-92
Pour Point, °C	-15	-15	-15	ASTM D-97



CUTTING OIL

DESCRIPTION

U-LUBE CUTTING OIL is made with high quality base oil and high quality additives. It is General Purpose soluble cutting fluid in concentrated form which should be diluted with water and form a stable milky white emulsion. It is non-staining and can be used in both ferrous and non-ferrous metals in wide variety of machining operation.

APPLICATION

U-LUBE CUTTING OIL is applicable on machine operation for drilling, milling, turning, and grinding.

Solution preparation: Dilution of cutting oil varies according to their application and severity of operation.

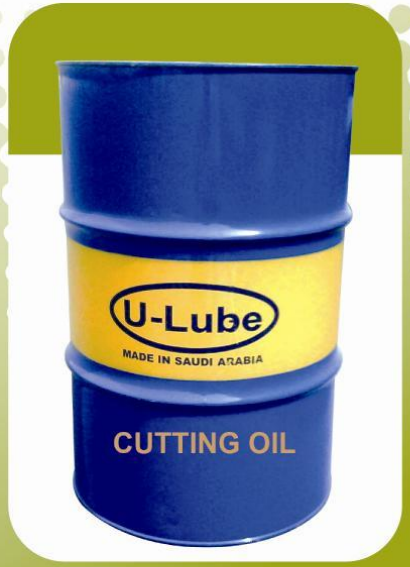
Emulsion preparation: To ensure that satisfactory results can be obtained using this cutting oil concentration, especially when replacing the polluted fluid, it is recommended that both the pump and line are disinfected and cleaned properly, emulsion is prepared by the simple addition of the concentrate to clean tap water under gentle agitation. Best results are obtained using a mixing device.

BENEFITS

- It has good corrosion resistance.
- Good emulsion stability.
- Nitrite / Phenol / Cresol free.
- Less odor solution.
- Good flexibility as a base package.
- Compatible with main chemical type of biocide and fungicides.

TYPICAL PROPERTIES

Test Parameter	Units	Typical Results	Method
Appearance	-----	C&B	Visual
Colour	-----	2.5	ASTM D-1500
Density @ 15°C	Kg/m^3	0.8836	ASTM D-4052
Viscosity @ 40°C	mm^2/s	47	ASTM D-7042
Viscosity @ 100°C	mm^2/s	6.67	ASTM D-7042
Viscosity Index	-----	94	ASTM D- 2270
Flash Point (COC)	°C	134	ASTM D-92
	Dilution		
Dilution Appearance	-----	Milky / Translucent	Visually
pH Value (5% dilution)	-----	9.2	-----
Herbert Corrosion test	-----	0/0-0	IP 125
Filter Paper Corrosion test	%	Nil	IP 287



RINSE

FLUSHING OIL - RINSE: BASE

DESCRIPTION

U-Lube Rinse Base is specialty lube oil developed from selected high quality, low vapor and high boiling range refined mineral base oil and is recommended for moderate hot and fast idle conditions without load.

APPLICATION

- It is especially suitable for use in most vacuum pumps, pipelines, vessels and other Industrial mechanical systems where moderate temperatures are expected.
- It is also useful for the purpose of flushing in gasoline and diesel engines.

BENEFITS

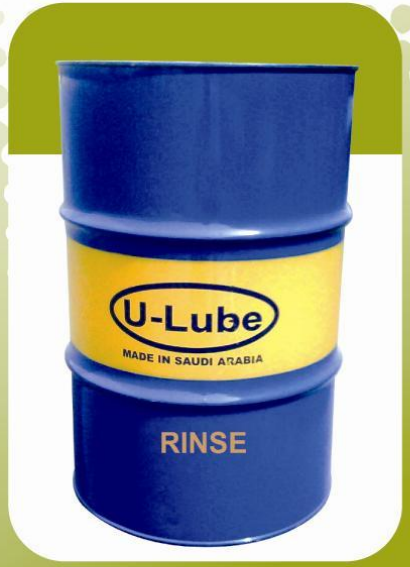
- Inherently high Oxidation Resistance.
- Thermally stable and removes contaminants.
- Low Chemical reactivity.
- Non-toxic.

SPECIFICATIONS

ISO Grade : 32

TYPICAL PROPERTIES

Properties	Results	Method
Appearance	Clear	Visual
ASTM Color	L1	ASTM D 1500
Density @ 15° C, g/ml	0.875	ASTM D 1298
Flash Point, COC, °C	205	ASTM D 92
Viscosity @ 40°C, cSt	32	ASTM D 445
Viscosity Index	99	ASTM D 2270
Pour Point	-30	ASTM D 97



HEAVY DUTY BRAKE FLUID

DOT 3

DESCRIPTION

U-Lube Heavy Duty Break Fluid is formulated with high quality non petroleum chemical fluid. It provides maximum wet boiling point protection against vapour lock brake failure. This fluid is working under extreme desert heat, arctic cold for corrosion control.

APPLICATION

Recommended for all anti-lock braking systems (ABS), hydraulic drum and disc braking systems and hydraulic clutches requiring DOT 3.

BENEFITS

- All season Protection.
- Protects against metal corrosion.
- Compatible with rubber components.
- Prevents seal hardening or softening.
- Mixes with conventional brake fluids.

SPECIFICATIONS

SAE J1703, J1704, FMVSS No. 116 DOT 3 and DOT 4 MOTOR VEHICLE BRAKE FLUID

TYPICAL PROPERTIES

Properties	Results DOT 3	Method
Equilibrium Reflux Boiling Point, °C	240	FMVSS116
Wet E. R. Boiling Point,°C	145	FMVSS116
Viscosity @ 100°C, cSt	2.1	ASTM D-445
pH	8.6	FMVSS116
Specific Gravity, 15°C	1.18	ASTM D-1298
Flash Point, COC, °C	150	ASTM D-92

PREMIUM VI

VISCOSITY INDEX IMPROVER

DESCRIPTION

U Lube Premium VI is an Ethylene propylene Copolymer Viscosity index Improver recommended to use in suitable base stocks to manufacture multi-grade crankcase engine oils.

BENEFITS

U-Lube Premium VI has excellent shear stability index and does not let the oil to become thin at high temperature and high-shear-rate applications.

RECOMMENDED DOSSAGE

The dosage of U Lube VI improver generally recommended to meet and stay-in-grade requirements as given below

SAE Grade	10W-30	10W-40	15W-40	20W40	20W-50
U Lube VII (wt.)	6 - 8 %	8-11 %	8.5 -10 %	2-4 %	5.5-8%

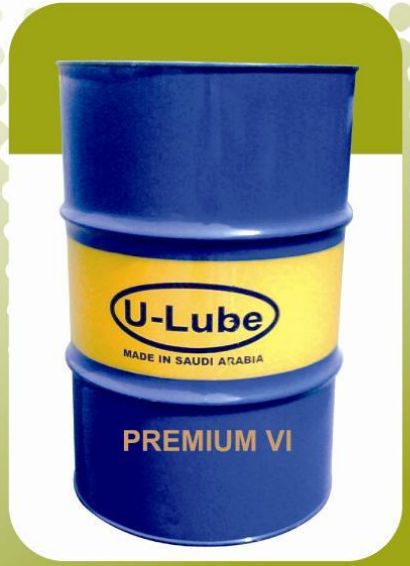
FEATURES

- Cost-effective VI improver for crankcase lubricants.
- Field tested.

TYPICAL PROPERTIES

Properties	Results
Appearance	Clear
ASTM Colour	L 2
Specific Gravity @ 15° C, g/ml	0.875
Flash Point, COC, °C, min.	200
Viscosity @ 100°C, cSt	1100
Viscosity @ 40°C, cSt	12300
Oil Blend Vis@ 100°C, cSt	15

10.0% by weight solution of U lube VI Improver in a 300N base stock (95 VI minimum, viscosity @ 100° C=7.5 cSt) will have a viscosity @ 100° C, cSt of 14.7 (min) – 15.2 (max).



LITHO GREASE

MP GREASE NLGI # 2 & 3

GREASE

DESCRIPTION

U-LUBE LITHO Grease is Multi-Purpose Lithium base grease which is formulated with lithium-Stearate soap and highly refined mineral base oil, contains oxidation and corrosion resistance additives package which help to ensure long service life grease and high level of protection for ferrous surfaces.

APPLICATION

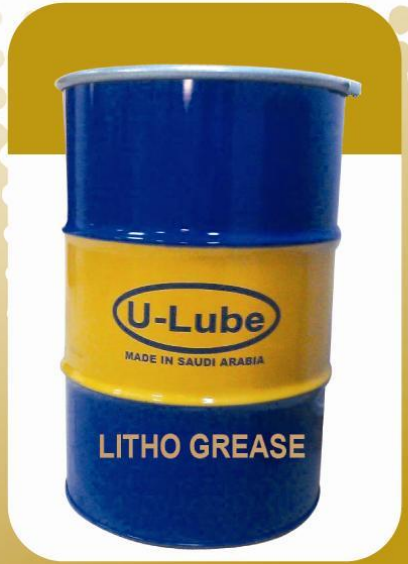
U-LUBE LITHO grease are for use in plain and roller bearing of all types and all kinds of machinery – including electrical motor, machine tools, textile, paper making, wood-working machines, passenger car, vans truck, home appliances, industrial and construction equipments that is operating between -10 to 120°C.

BENEFITS

- Multi-Purpose.
- Low friction torque and good pumpability.
- Resist washing off by water.
- Long service life.
- Excellent protection against oxidation and corrosion.

PRODUCT CHARACTERISTICS

Test Parameter	Units	Typical Results		Test Method
NLGI grade		**2**	**3**	
Colour	Visual	Light Brown	Light Brown	-----
Soap Type	-----	Lithium	Lithium	-----
Texture	-----	Smooth	Smooth	Visual
Work Penetration @25°C	mm/10	277	235	ASTM D-217
Drop Point (min)	°C	185	190	ASTM D-2265
Operating Temperature	°C	-10 to 120	-10 to 120	-----
Oil Separation (max)	Wt %	5	5	ASTM D-1742
Oxidation Stability	bar	0.3	0.3	ASTM D-942



LITHO MAX GREASE

EP LITHIUM GREASE NLGI # 2 & 3

GREASE

DESCRIPTION

U-LUBE LITHO MAX GREASE is extreme pressure lithium base grease , which is formulated from high viscosity base oil, lithium 12- Hydroxy Stearic Acid soap with extreme pressure additives package containing sulfur and phosphorous that ensure heavy duty extreme equipment application.

APPLICATION

U-LUBE LITHO MAX GREASE is formulated for use in high mechanical stresses bearing, industrial, construction, automotive machinery, chassis point, generator bearing, truck bearing, and industrial equipment.

BENEFITS

- Multi use in industrial and automotive applications.
- Suitable for high load bearing operation.
- Excellent load carrying ability.
- Superior lubrication under heavy load.
- Excellent protection against oxidation and corrosion.

PRODUCT CHARACTERISTICS

Test Parameter	Units	Typical Results		Test Method
NLGI grade		**2**	**3**	
Soap Type	-------	Lithium	Lithium	-------
Texture	-------	Smooth	Smooth	Visual
Work Penetration @25°C	mm/10	280	235	ASTM D-217
Drop Point (min)	°C	180	190	ASTM D-2265
Operating Temperature	°C	-10 to 130	-10 to 130	-------
Oil Separation (max)	Wt %	5	5	ASTM D-1742
Oxidation Stability	bar	0.3	0.3	ASTM D-942
Rust Test	-------	Pass	Pass	ASTM D-1743
Timken OK Load	lbs	>45	>45	ASTM D-2509

SAE VISCOSITY GRADE FOR ENGINE OILS

(SAE J 300 DEC 99)

SAE Viscosity Grade	Low Limit Cranking Viscosity max at temp cP at °C	Low Temp Pumping Visc. Max with no yield stress at temp Cp at °C	High Temperature Viscosity Kinematic cSt at 100°C		High Temp High Shear Viscocity at 150°C & 10^6/s min cP
			Min	Max	
0W	6200 at -35	60,000 at -40	3.8	-------	-------
5W	6600 at -30	60,000 at -35	3.8	-------	-------
10W	7000 at -25	60,000 at -30	4.1	-------	-------
15W	7000 at -20	60,000 at -25	5.6	-------	-------
20W	9500 at -15	60,000 at -20	5.6	-------	-------
25W	13000 at -10	60,000 at -15	9.3	-------	-------
20			5.6	<9.3	2.6
30			9.3	<12.5	2.9
40			12.5	<16.3	2.9[1]
					3.7[2]
50			16.3	<21.9	3.7
60			21.9	<26.3	3.7

Note: 1 Cp = 1 mPa.s: 1cSt = 1 mm²/s

API SERVICE CLASSIFICATION

The current and previous API Service Categories are listed below :

S- SERVICE

GASOLINE ENGINE:-

Category	Status	Service
SM	Current	For all automotive engines presently in use. Introduced November 30, 2004. SM oils provide improved oxidation resistance, improved deposit protection, better wear protection and better low temperature performance over the life of the oil.
SL	Current	For 2004 and older automotive engines.
SJ	Current	For 2001 and older automotive engines.
SH	Obsolete	For 1996 and older engine. Valid when preceded by current C categories.
SG	Obsolete	For 1993 and older engines.
SF	Obsolete	For 1988 and older engines.
SE	Obsolete	Not suitable for use in gasoline powered automobile engine build after 1971.
SD	Obsolete	Not suitable for use in gasoline power automobile engine build after 1971. Use in more modern engines may cause unsatisfactory performance or equipment harm.
SC	Obsolete	Not suitable for use in gasoline power automobile engine build after 1967. Use in more modern engines may cause unsatisfactory performance or equipment harm.
SB	Obsolete	Not suitable for use in gasoline power automobile engine build after 1963. Use in more modern engines may cause unsatisfactory performance or equipment harm.
SA	Obsolete	Not suitable for use in gasoline power automobile engine build after 1930. Use in more modern engines may cause unsatisfactory performance or equipment harm.

API SERVICE CLASSIFICATION

The current and previous API Service Categories are listed below :

C- COMMERCIAL

DIESEL ENGINES:-

Category	Status	Service
CI-4	Current	Introduced September 5, 2002. For high speed four stroke engines designed to meet 2004 exhaust emission standards implemented in 2002. CI-4 oils are formulated to sustain engine durability where exhaust gas recirculation is used and are intended for use with diesel fuels ranging in sulfur content up to 0.5% weight. Can be used in place of CD, CE, CF-4, CG-4 and CH-4 oils.
CH-4	Current	Introduced in 1998. For high speed four stroke engines designed to meet 1998 exhaust emission standards CH-4 oils are specially compounded for use with diesel fuels ranging in sulfur content up to 0.5% weight. Can be used in place of CD, CE, CF-4, CG-4 oils.
CG-4	Current	Introduced in 1995 for severe duty, high speed, and four stroke engines using fuel with less than 0.5% weight sulfur. CG-4 oils are required for engines meeting 1994 emission standards. Can be used in place of CD , CE and CF-4 oils.
CF-4	Current	Introduced in 1990 . For high-speed , four stroke, naturally aspirated and turbocharged engines can be used in place of CD and CE oils.
CF-2	Current	Introduced in 1994 . For severe duty , two-stroke cycle engines. Can be used in place of CD-II oils.
CF	Current	Introduced in 1994, For off-road, indirect injected and other diesel engines including those using fuel with over 0.5% weight sulfur. Can be used in place of CD oils.
CE	Obsolete	Introduced in 1987, For high-speed, four stroke naturally aspirated and turbocharged engines. Can be used in place of CC and CD oils.
CD-II	Obsolete	Introduced in 1987. For two stroke –cycle engines.
CD		Introduced in 1955. For certain naturally aspirated and turbocharged engines.
CC		For engines introduced in 1961.
CB		For moderate duty engines from 1949 to 1960.
CA		For light duty engines 1940´s and 1950´s.

SAE AXLE AND MANUAL TRANSMISSION LUBRICANT VISCOSITY CLASSIFICATION

(SAE J 306)

SAE Viscosity Grade	Maximum Temp for Viscosity at 150,000 cP°C	Viscosity at 100 °C cSt	
		Min	Max
70W	-55	4.1	-------
75W	-40	4.1	-------
80W	-26	7.0	
85W	-12	11.0	-------
80	-------	7.0	<11.0
85	-------	11.0	<13.5
90	-------	13.5	<18.5
110	-------	18.5	<24.0
140	-------	24.0	<32.5
190	-------	32.5	<41.0
250	-------	41.0	No Req

VISCOSITY SYSTEM FOR INDUSTRIAL FLUID LUBRICANTS

(ISO 3448, ASTM D 2422, DIN 5159)

ISO VG	Mid Point Viscosity at 40 °C cSt	Limit of Viscosity at 40 °C cSt	
		Min	Max
2	2.2	1.98	2.42
3	3.2	2.88	3.52
5	4.6	4.14	5.06
7	6.8	6.12	7.48
10	10	9.0	11.0
15	15	13.5	16.5
22	22	19.8	24.2
32	32	28.8	35.2
46	46	41.4	50.6
68	68	61.2	74.8
100	100	90.0	110
150	150	135	165
220	220	198	242
320	320	288	352
460	460	414	506
680	680	612	748
1000	1000	900	1100
1500	1500	1350	1650

NLGI LUBRICATING GREASE CLASSIFICATIONS

NLGI Consistency Number	ASTM Work Penetration at 25°C Tenths of a Millimeter
000	445 – 475
00	400 – 430
0	355 – 385
1	310 – 340
2	265 – 295
3	220 – 250
4	175 – 205
5	130 – 160
6	85 – 115

PACKINGS AVAILABLE

CANS - 1 Lit, 4 Lit, 5 Lit, 20 Lit, 25 Lit, 200 Lit, 208 Lit, Bulk (30,000 Lit)
Special packs - 250 ml for Brake Fluid.

CARTONS:

24 x 250 ml
12 x 1 Lit
24 x 1 Lit
6 x 4 Lit
6 x 5 Lit

Note: The above stated list are our standard which may not be available for all products. Contact our Sales department for available packs for each product of your interest.

U-Lube

PREMIUM LUBRICANTS

UNILUBE LUBRICANTS BLENDING AND PACKAGING PLANT

P.O. Box 11234, Jubail Industrial City,
Kingdom of Saudi Arabia - 31961
Tel: +966 3 3404913, +966 3 3404914, +966 3 3404915
Alternate Tel.: +966 3 3411168
Fax:+966 3 3411344

مصنع يونيلوب لخلط وتعبأة زيوت التشحيم

ص ب ١١٢٣٤، مدينة الجبيل الصناعية
المملكة العربية السعودية ٣١٩٦١
تلفون: ٣٤٠٤٩١٣ ٣ ٩٦٦+ / ٣٤٠٤٩١٤ ٣ ٩٦٦+ / ٣٤٠٤٩١٥ ٣ ٩٦٦+
رقم بديل: ٣٤١١١٦٨ ٣ ٩٦٦+
فاكس: ٣٤١١٣٤٤ ٣ ٩٦٦+

sales@unilubeco.com
www.u-lube.com