

NEPAL PETRO LUBE

INDUSTRIES PVT. LTD



COMPANY PROFILE

With 25 years of expertise, Nepal Petro Lube Industries Pvt. Ltd. stands as a trusted name in the lubricant industry. We specialize in manufacturing and supplying premium-grade lubricants under our flagship brands MACXOL and AUTOMA, catering to both automobile and industrial sectors.

We are ISO 9001:2015 certified, accredited by IAF (USA), reflecting our commitment to quality, innovation, and customer satisfaction. Our products are developed to exceed international standards, ensuring superior performance, durability, and reliability. Our extensive distribution network enables us to serve customers across all provinces of Nepal, reinforcing our dedication to nationwide availability and support.

Currently, we have successfully supplied our products to all provinces of Nepal, except Karnali Province, and we are actively working towards expanding our reach to serve customers there as well.

OUR GOAL

Our main goal is to increase customer happiness, extend engine life, safeguard machine parts, and minimize consumption.



QUALITY ASSURANCE

At Nepal Petro Lube Industries Pvt. Ltd., we understand that reliability and consistency are paramount. That's why we meticulously monitor lubricant performance, conduct regular maintenance checks, and provide comprehensive support to address any issues that may arise.

We are proud to be ISO 9001:2015 certified by IAF (USA) for maintaining world-class quality management systems in lubricant development, manufacturing, and customer service. This certification reflects our dedication to continuous improvement, innovation, and excellence.

We guarantee that we will continue to uphold the highest standards of quality and consistency, ensuring the best solutions for our valued customers.

RESEARCH & DEVELOPMENT

At Nepal Petro Lube Industries Pvt. Ltd., we are committed to advancing lubrication technology through continuous research and development. Our team of experts is dedicated to selecting the right additives and base oils for each application, ensuring optimal performance and efficiency across all sectors of our business.

We take pride in staying abreast of the latest advancements in lubrication technology and best practices, constantly striving to improve our processes, products, and exceed industry standards. Our focus on innovation drives us to develop solutions that deliver superior quality and unmatched reliability for our customers.



CERTIFICATE



ENGINE OIL

MACXOL PREMIUM ENGINE OIL 15W40

Macxol Premium Engine Oil 15W40 is a commercial multipurpose diesel engine oil and meets the requirements of off-highway diesel engines. It is also suitable for petrol engines. This oil provides excellent protection against high temperature engine deposits, oil degradation, oil thickening and corrosion. This has also good shear stability to maintain viscosity under severe, high temperature operations. This oil exceeds the latest API CF4/SF service classification for modern and low emission diesel engines. It also meets the performance requirements of Allison C-4, MAN 271, US-MIL-L-2104E, CCMC D4, VW505 and exceeds IS: E-DL 3/E-PL 3.



TYPICAL PROPERTIES

KV @ 100°C in CST	VI min	Flash Point °C COC	Pour Point °C COC	Low Temp. Cranking & Pumping Viscosity at 30 °C
15.20	125	225	-15	PASSES

RECOMMENDATION:

- Super/ Turbo charged diesel engines operating under severe duty conditions.
- Gasoline engines requiring API-SF level lubrications.
- Naturally aspirated diesel engines.
- Caterpillar and Cummins engines for off-highway equipments and new generation diesel cars.

MACXOL ULTRA MULTILUBE PLUS MG 20W50

ULTRA MULTILUBE PLUS MG 20W50 oils have good detergency towards soot thickening with in-built corrosion protection for engines and also have excellent oxidation stability. The multigrade version gives added advantages of both fuel and lube saving and reduction of cold engine starting problems. These oils meet API DC, IS-MILL-45199B IS: DL2 (IS:E-DL3 for Macxol Gold Engine Oil SAE 20W40 of BIS 13656-1993 Specifications.



TYPICAL PROPERTIES

KV @ 100°C in CST	VI min	Flash Point °C COC	Pour Point °C COC	Low Temp. Cranking & Pumping Viscosity at 30 °C
18	120	240	-21	PASSES

RECOMMENDATION:

- Turbo & super charged heavy duty diesel engine vehicles.
- Earth moving equipments
- Diesel powered generator sets.
- Macxol Gold Engine Oil SAE 20W50 is ideally suited for power generating sets operating on distillate fuels and requiring a multigrade oil.

ENGINE OIL

MACXOL GOLD ENGINE OIL SB-40

Macxol Extra Power Engine Oil SB 40 oils are long drain engine oils having good built-in alkaline reserves to combat corrosive wear that may result from the use of high sulphur fuel. These oils possess high oxidation and thermal stability to resist decomposition in service and have excellent ability to control viscosity due to soot related oil thickening. These oils meet API CD /SF, US-MIL-L-2104C, IS: E-DL3 of BIS 13656- 1993 Specifications. Macxol Extra Power Engine Oil SAE 40 oils are suitable for all seasons.



TYPICAL PROPERTIES

KV @ 100°C in CST	VI min	Flash Point °C COC	Pour Point °C COC	Low Temp. Cranking & Pumping Viscosity at 30 °C
14.8	115	240	-21	-

RECOMMENDATION:

- Naturally aspirated diesel engines.
- Super/Turbo charged diesel vehicles operating under severe duty conditions.

GEAR OIL

MACXOL HEAVY DUTY GEAR MAX OIL EP 90/140-GL-4

These oils are extreme pressure gear oils used in hypoid gears to ensure smooth gear shift under all driving condition, and eliminates risk of gear failure, and protect. Highly expensive internal gear box from rust and corrosion reducing noise of operation. It meets IS : 1118-1992, MIL-2105 & API GL-4 Specifications. Recommendation for bevel , spiral bevel, differentials for spur gear oil, lubricated universal joints and manually operated steering gear.



TYPICAL PROPERTIES

Product	KV @ 100°C in CST	VI min	Flash Point °C COC	Pour Point °C COC	Low Temp. Cranking & Pumping Viscosity at 30 °C
Macxol Gearoil Oil EP 90GL4	17.90	96	230	PASSES	-
Macxol Gearoil Oil EP 140GL4	32.90	96	250	CHANNEL P+ PASSES	-

ADVANTAGES:

- Very good load carrying capacity.
- Excellent anti weld properties.
- Very good oxidation and thermal stability.
- Very good performance under extreme pressure and varying load conditions.

MACXOL GPM OIL

22, 32, 46, 68, 100, 150, 220, 320, 460

This Oil is a non inhibited mineral oil manufactured from selected paraffinic crudes. Its low pour pt. & good oxidation stability are developed by solvent processing & refining.

These Oils are formulated to provide good film strength and anti-rust properties. These oils provide good oiliness for general and boundary lubrication; it protects against rust and corrosion and maintains thin film of oil under light and medium load. These oils contain film strength and anti-rust properties.

PROPERTIES	MACXOL GPM OILS[22-460]								
	VG 22	VG 32	VG 46	VG 68	VG 100	VG 150	VG220	VG 320	VG 460
KV @ 40°C in CST	20-24	30-34	42-50	64-72	95-105	145-152	215-225	315-324	460-465
Flash Point °C COC, min	160	180	180	180	200	210	220	220	240

RECOMMENDATION:

These Oils are general purpose oils may be used in Jute Mills, Textile Mills, Paper Mills, and Machine Tools and for other general purpose application. These Oil are effectively used for oil lubricated ball & roller bearing, hydraulic & circulating systems, enclosed light duty, high speed gears, machine tools & general machinery .

ADVANTAGES:

- Provides good oiliness in general lubrication of machine-tools.
- Prevents corrosion and rusting of Machine Parts.
- Macxol GPM Heavy duty oils are also used for lubrication of small open gears under light duty condition.

MACXOL GEARMAX OIL

90, 100, 140, 220, 257, 320, 460 & 680

Macxol Geartech Oil are extreme pressure type industrial gear oils, which contain Sulphur-Phosphorus Compounds and can be used in all types of gear boxes including copper and its alloys made bearing system. These oils are made out with high quality gear stocks to save oxidation stability high viscosity index, flash pt. Premium extreme pressure channel. These Oils have better thermal stability, higher oxidation resistance compared to conventional lead naphthanate gear oil. These Oils meet IS: 8406/ 1985, AGMA 250. 04 and us STEEL 224 Specification.



PROPERTIES	MACXOL GEARTECH[90-680]							
	VG 90	VG 100	VG 140	VG 220	VG 257	VG 320	VG 460	VG 680
KV @ 40°C in CST	90	100	140	220	257	320	460	682
VI min	95	95	90	90	90	90	90	90
Flash Point °C COC, min	180	190	200	220	230	230	230	230
Timken OK, Load(KG), min	25	25	25	25	25	25	25	60
Pour Point °C Max	-6	-6	-6	-6	-6	-3	-3	-3

RECOMMENDATION:

These oil are recommended for all heavy duty enclosed gear drives with circulation or splash lubrication system operating under heavy or shock load conditions up to a temperature of 110°C. However, for worn gears, the bulk oil temperature is usually restricted to 95°C. They are suitable for heavily loaded bearing & for high speed Single & Double helical gears.

These oils can also be used for plain and roller bearing, sliding surfaces, chain drives, circulation or spray lubrication systems requiring EP type oils.

ADVANTAGES:

- Takes care of thermal and oxidation stability.
- Extreme pressure type operation/ system.
- Suitable for heavy duty and shock load application.
- Possesses high demulsibility.

IT IS AN IDEAL INDUSTRIAL GEAR LUBRICANT ENCLOSED FOR GEAR DRIVES AND RPM REDUCER FOR ALL TYPES OF GEAR BOXES.

EP Gear oil 220 & 320 can be used for slower speed gears in the 200/2500 FPM Speed range & worm gear heavily rubbing speeds in the range of 0-2000FPM.

HYDRAULIC OIL

MACXOL HYDRAULIC OIL AW

32, 46, 68, 100, 150, 320

Macxol Hydraulic Oils are anti wear type hydraulic oil specially formulated with selected high viscosity index base stocks, rust, inhibitor demulsifier, anti foam inhibitor, anti oxidant additives.

These oils have long service life and are recommended for general hydraulic equipment in control and power transmission systems having vane pump requiring mild extreme pressure properties. These oils can also be used for compressor crankcase lubrication, but not recommended for lubrication of turbines and equipment having silver coated components. It may be used in a wide variety of application including air line lubricators, bearings, high speed spindles, hydrostatic transmissions, hydraulic couplings etc.

These oils contain anti wear additives which prevents such excessive wear & ensures long pump & valve life.

These oils meet IS : 10522 /1983 and DIN 51524 (Part 1) Specifications,



PROPERTIES	MACXOL HYDROLIC OIL					
	VG 32	VG 46	VG 68	VG 100	VG 150	VG 320
KV @ 40°C in CST	32	46	68	100	150	320
VI min	98	98	98	98	98	98
Flash Point °C COC, min	180	180	210	210	230	250
Pour Point	-12	-12	-12	-12	-10	-10
Copper Strip Corrosin at 100°C for 3 hrs Max.	NO 1	NO 1	NO 1	NO 1	NO 1	NO 1
Timken OK. Load (Kg), Min	-	-	-	-	-	60

ADVANTAGES:

- Optimum Viscometerix Match As Per System Requirement.
- Excellent Air Release Value.
- Maximum Water Separatibility & Low Pump Wear.
- Built – In Antirust, Anticorrosion, Antiwear And High Oxidation Stabilising Properties.
- Longer Equipment Protection And High Load Carrying Capacities.
- Ideal For Hydraulic System Specially For Its Long Service Life, Exceptional Anti-wear Lubrication And Load Beaing Power.

HYDRAULIC OIL

MACXOL HYDRAULIC OIL

32, 46, 68, 100, 150

These oils are specially blended from highly refined base stocks and carefully selected antioxidants, anti wear, antirust, and antifoam additives.

HLP Hydraulic Oils are premium quality heavy duty hydraulic oils having outstanding anti wear properties, oxidation stability and a high FZG rating, in addition these grade have excellent resistance to thermal degradation and better hydraulic stability.

These grades are specially developed for sophisticated hydrolytic devices with hydro mechanical actuators. These oils are suitable in application system where oil is used for extended periods.



PROPERTIES	MACXOL HYDROLIC OIL				
	VG 32	VG 46	VG 68	VG 100	VG 150
KV @ 40°C in CST	32	46	68	100	150
VI min	95	95	95	95	95
Flash Point °C COC, min	180	180	210	210	230
Pour Point	-6	-6	-6	-3	-3
Copper Strip Corrosin at 100°C for 3 hrs Max.	NO 1	NO 1	NO 1	NO 1	NO 1

RECOMMENDATION:

These grades are recommended for use in screw compressors, vacuum pumps, mining machinery and machine tools where E.P. type oils are required.

These grades meet requirement of IS 11656 : 1986, specification and DIN 51524 (Part II) Specification.

ADVANTAGES OF USING HLP GRADE HYDRAULIC OILS :

- Excellent Anti wear properties under extreme load conditions.
- High air release value and low foaming characteristics.
- Good demulsibility for fast separation.
- Very good cleanliness of the machinery parts.

COMPRESSOR OIL

MACXOL COMPRESSOR OIL

32, 46, 68, 100, 150, 220

Compressor oils are specially developed to satisfy satisfactory lubrication under prolong high temperature and load conditions. These oils are premium quality, highly refined high VI oils. These oils are exceptionally stable and fortified with anti oxidant, anti rust and anti wear properties. It contains a chemically stabilised additive which provides outstanding anti wear properties.

These oils are recommended for lubrication of air compressor with discharge temperature upto 220 oC and also recommended for screw compressors.

These grades generally meet the requirement of IS : 13256 – 1992 Specification. These grades are also generally recommended to meet the requirement of DIN 51506 VD-L group for air compressors.

PROPERTIES	MACXOL HYDROLIC OIL					
	VG 32	VG 46	VG 68	VG 100	VG 150	VG 320
KV @ 40°C in CST	30-34	42-50	64-72	98-105	145-152	320-327
VI min	95	95	95	95	95	97
Flash Point °C COC, min	180	180	210	210	230	261
Pour Point	-12	-12	-12	-12	-12	-6
Copper Strip Corrosin at 100°C for 3 hrs Max.	PASSES	PASSES	PASSES	PASSES	PASSES	PASSES

ADVANTAGES:

- Reduce maintenance cost and maintains compressor performance by minimizing deposits.
- Protect against rust and corrosion.
- Provide long service life due to resistance to oxidation.
- Good demulsibility and low deposit.
- Provide superior filterability and oil seal compatibility.
- Economy in use.

AUTOMATIC TRANSMISSION FLUID

MACXOL AUTOMATIC TRANSMISSION FLUID (ATF) 10W, 30W

This Oil is a premium quality red dyed oil, having very low coefficient of friction. The oil possesses excellent thermal & oxidation resistance, low temperature fluidity, seal compatibility, foam control, corrosion control and anti-wear property.

This oil is formulated to meet ALLISOIN – C4 specification to meet Automatic & Powershift transmission.

Recommendation for Automatic transmission power steering until synchromesh gear box of automobile & track recommending type A suffix A Fluid.



PROPERTIES	MACXOL ATF	
	10W	30W
KV @ 100°C in CST	6	11.5
Zn %	0.12	0.12
Demonorous	0.11	0.11
Pour Point	-27	-21

ADVANTAGES:

- Specialized frictional characteristic.
- Lubricate Gears & Bushings.
- Remove heat and remains stable.
- Ensure transmission seal performance.
- Special anti-foam property.
- Wide operating temperature.

MACXOL SOLUBLE CUTTING OIL

'Macxol Soluble Cutting Oil' is a high performance water miscible cutting oil specially used for general purpose machining and shaping of ferrous and non-ferrous metals and also alloys. It forms stable, milky white emulsion on dilution with water and is designed to provide optimum cooling, anti-rust and lubrication characteristics during use.

Macxol Soluble Cutting Oil contains narrow cut hydrocarbon oil and is formulated with synergistic polar substance and additives to enhance friction and wear characteristics, thereby facilitating low tool wear and excellent surface finish for the work-piece. It protects both the machine and the work-piece from corrosion and is fortified with antibacterial agent for longer emulsion life and stability. It does not produce any tramp oil contamination and possesses excellent stability in hard water upto hardness 600 ppm.

Macxol Soluble Cutting oil is free from chlorine, phenolic materials, nitrite and other toxic ingredients and can be easily disposed off.

Application: Macxol Soluble Cutting Oil can be used 3 to 8 percent concentration with water as a general purpose cost effective cutting fluid for all types of general machining, shaping and cutting operations. It is also suitable for drilling and turning operation where optimum cooling and surface finish are required. Depending on the severity of operation. Solcut 'A' can be used in emulsion strength of 3 to 8 percent. It can easily be emulsified and does not form any cream even during prolonged uses. For optimum performance and emulsion life it is recommended the quality of water for emulsion preparation and make up should be monitored regularly. This oil exceeds IS : 1115/1986, Reaffirmed 1996 Specification.

PROPERTIES	SOLUTION CUTTING OIL
Appearance	Clear & Homogeneous
KV @ 40°C in CST, min	3.2
Emulsion Test, 5:1 and 20:1 ratio in water of 400 ppm hardness (as CaCO ₃)	PASSES
Frothing test, 5:1 and 20:1 ratio in 200ppm hardness (as CaCO ₃)	PASSES
Cast Iron Corrosion test, 20:1 ratio emulsion with 400ppm hard water	PASSES
Thermal stability Test	PASSES
Flash Point, °C (COC), Min	150



INDUSTRIAL OIL

ADVANTAGES:

- Highly stable, long lasting emulsion resulting into increased service life.
- Capable to form homogeneous emulsion with hard water upto 1000 ppm.
- Very good cooling and lubricating properties.
- Cooling of Chips, dusts and dirt form work-piece.
- Smooth surface finish.
- Protects work-piece and machine parts from dust.

RUBBER PROCESS OIL

1000, 700, 400, 300, 200

RPO are petroleum based rubber process oil which are generally used in the manufacture of all Rubber Products such as Tyre, Tubes, Foot-Wear, Mats, hoses etc. These oils are add to the polymer.

ADVANTAGES:

- To facilitate mixing operation.
- Reduce compounding time.
- Improve processibility.
- Excellent physical properties of the finished product.
- Reduce cost of finished product.

MACXOL THERMIC FLUID

This oils are petroleum based fluids designed to provide a high level of dependable performance in a wide variety of application. Heat Transfer oils are formulated with thermally stable base oils. These oils contains an effective high temperature deposit inhibitor system to minimize the build up of efficiency robbing deposits over time, particularly in the hot spots of the system. It is specially developed mineral oil which is used for use in heat transfer industrial application.

These oils have excellent thermal & oxidation stability, low volatility & oxidation stability, low volatility & low vapour pressure which help to give long & trouble free service life in heat transfer system. The viscosity index of the oil is very high. Macxol have high specific heat and thermal conductivity at all temperatures and therefore, will give rapid heating and flexibility in a system. The application limits of heat transformer oil depend first on circulating speed and second on temperature in closed circuit system.

ADVANTAGES:

This oil is well designed for heat transfer system upto 300 °C

PROPERTIES	MACXOL HEAT TRANSFER OIL
Density	0.873
ASTM Colour	<1.0
Flash Point, Deg C	205
Pour Point, Deg C	-9
Viscosity @ 40 Deg C	30.7
Neutralization No. mg KOH/g	0.05
V. I.	104
Flash Fire Point	215

VELOCITY OF FLUID m/sec	OPERATING TEMPERATURES BELOW,DEG C
1.5	205
2.0	205-260
3.0	260-300
3.5	ABOVE 300

ANTI STATIC OIL

Anti Static Oil is used for texturising synthetic yarn such as viscose, acetate rayons, nylons and polyesters. These oil of different viscosities ranges from 70 to 160 SUS at 40°C will be made available as per customer's requirements. The low frictional properties of the oil reduce break level, while the novel surfactant systems permit higher oil pick-up even at lower roll speeds compared to conventional oils.

PROPERTIES	REQUIREMENTS	TEST RESULTS
Appearance	Clear & pate yellow	Clear & pate yellow
Specific gravity@ 30°C	0.886± 1	0.886
Viscosity @ 40 °C	70-130 SUS	26
Acid Value	3 MAX	1%
Iodine Value	8 MAX	4
Moisture Content	2 % MAX	1%
PH of 10% Emulsion	6-8	7
Ionic Nature	NON IONIC	NON IONIC
Flash Point COC	155°C Min	170°C
Cloud Point	<8°C	3°C

The oils of different viscosities ranging from 70 to 160 SUS at 40°C will be made available as per customer's requirements.

ADVANTAGES:

- It has antistatic activity and excellent pick-up quality as high as 3 to 5% on wt. of yarn.
- It gives considerable reduction in chemical SPLASHING in high speed machines, thus reduces chemical wastage and chemical cost.
- It is highly effective in improving antistatic properties with concomitant reducing friction.
- It has very good colour stability. When cones of yarn are stored for a long period of time the original colour maintained.

SPINDLE OIL

5,10,12,15

Spindle oils are manufactured from highly refined low viscosity base stocks having inherent oxidation & chemical stability.

It is low viscosity lubricant containing anti-wear, anti-oxidant, anti-rust and anti-foam additive.

ADVANTAGES:

- Provides very good anti-rust, anti-wear and anti-oxidant properties.

PROPERTIES	REQUIREMENTS	TEST RESULTS
Kin. Viscosity at 40 °C , cst.	11.00-13.00	12.80
Viscosity Index Min.	85	85
Pour Point, °C Max	-6	-6
Flash Point, COC, °C, Min	170	170

RECOMMENDATION:

- It used for lubrication of Textile and Machine Tools Spindle bearing, gears, positive displacement blowers and tracer mechanism and hydraulic system of certain high precision machine tools.
- It is also used for hydraulic procession machine tools timing gears, positive displacement blowers.

MACXOL EXTREME AP-3 GREASE

Macxol Extreme AP-3 Grease is a high quality Lithium Base Grease have excellent shear stability high load carrying capacity anti rust properties high oxidation stability.

Packing Size:

200GM, 1Kg, 1/2Kg, 2Kg, 3Kg, 5Kg, 10Kg, 18Kg, 180Kg

PROPERTIES	METHOD	UNIT	RESULT
Appearance	BAM 300	-	Greenish
Texture	-	-	Smooth & Buttery
NLGI Grade	ASTM D217	-	3
Base oil Viscosity @100°C in cst	IP 71	CST	10.5
Cone Penetration, Worked 60 strokes	IP 50	10ths/mm	250
Four Ball Weld Point	IP 239	KG	210
Drop Point	IP 132	°C	185-190

RECOMMENDATION:

For heavy-duty plain & roller bearing subjected to shock load under humid condition. It has excellent Pump ability and is recommended for centralized lubrication system. It exceeds IS. 7623: 1993 requirement. It is ideal for both auto & industrial use.

MACXOL PREMIUM EP GREASE

Macxol Premium EP Grease Lithium based grease having EP properties. Has excellent shear stability, high load carrying capacity, anti rust properties and high oxidation stability. Recommended for heavy duty plain and roller bearings subjected to shock loads under humid conditions. Has Excellent Pump ability and is therefore recommended for centralized lubrication system. Exceeds the requirements of IS 7623 : 1993 (EPTYPE) and IPSS : 1-09-005-86. It has got lubricant additive that prevents sending metal surface from seizing under enhance pressure condition.

Application : Macxol EP Grease is used for higher operating temperature of 200 oF and not to exceed 250 oF on back up roll work roll, & table bearing . These conditions are found in ball roller & plain bearing & general purpose lubrication in the pressure of large quantities of work.

PROPERTIES	EOP-0	EP-1	EP-2
Worked pent. @ 25 °C	370	330	265
Drop pt °C	180	180	180
Rust test	PASSES	PASSES	PASSES
Timken ok load kgs	25	25	25

ADVANTAGES:

- Wide Application variety
- Resist water washout
- High load carrying capacity
- Prevent sudden seizure and welding of moving parts.
- It reduces scuffing, scoring & seizure of controlling surfaces under high applied loads.

PACKING SIZE: 180KG

MACXOL HYDRAULIC

10W-40

Macxol Hydraulic 10W-40. Oils are anti wear type hydraulic oil specially formulated with selected high viscosity index base stocks, rust, inhibitor demulsifier, anti foam inhibitor, anti oxidant additives.

These oils have long service life and are recommended for general hydraulic equipment in control and power transmission systems having vane pump requiring mild extreme pressure properties. These oils can also be used for compressor crankcase lubrication, but not recommended for lubrication of turbines and equipment having silver coated components. It may be used in a wide variety of application including air line lubricators, bearings, high speed spindles, hydrostatic transmissions, hydraulic couplings etc.

It contains special zinc phosphorus anti wear additives which prevents such excessive wear & ensures long pump & valve life.

These oils meet IS : 10522 /1983 and DIN 51524 (Part 1) Specifications.

PROPERTIES	MACXOL HYDRAULIC 10W-40
Kin. Viscosity at 100 °C Cst	15
Kin. Viscosity at 40 °CCst (typical)	97
Viscosity Index, Min	114
Flash point (COC) °CMin	235
Pour Point	-20

ADVANTAGES:

- Optimum Viscometerix Match As Per System Requirement.
- Excellent Air Release Value.
- Maximum Water Separatibility & Low Pump Wear.
- Built-In Antirust, Anticorrosion, Antiwear And High
- Oxidation Stabilising Properties.
- Longer Equipment Protection And High Load Carrying Capacities.
- Ideal For Hydraulic System Specially For Its Long Service Life, Exceptional Anti-wear Lubrication And Load Beaing Power.

MACXOL MP-3 WHITE GREASE

It is a premium quality semi lithium base multipurpose grease which provides protection against rusting and corrosion. It has a high drop point and excellent thermal and structural stability. This grease has also high degree of resistance to oxidation. This grade meets IS :7623-1993(Second revision).

RECOMMENDATION:

For all type of automotive and industrial use.

PROPERTIES	METHOD	UNIT	RESULT
Appearance	BAM 300	-	Transparent & Yellow in colour
Texture	-	-	Smooth & Buttery
NLGI Grade	ASTM D217	-	3
Base oil Viscosity @100°C	IP 71	CST	10.5
Cone Penetration, Worked 60 strokes	IP 50	10ths/mm	250
Four Ball Weld Point	IP 239	KG	210
Drop Point	IP 132	°C	130-140

MACXOL SUPER AP-3 GREASE

It is a premium quality semi lithium base grease which provides protection against rusting and corrosion. It has a high drop point and excellent thermal and structural stability. This grease has also high degree of resistance to oxidation. This grade meets IS : 7623-1993(Second revision).

RECOMMENDATION:

For all type of automotive and industrial use.

PROPERTIES	METHOD	UNIT	RESULT
Appearance	BAM 300	-	Greenish
Texture	-	-	Smooth & Buttery
NLGI Grade	ASTM D217	-	3
Base oil Viscosity @100°C	IP 71	CST	10.5
Cone Penetration, Worked 60 strokes	IP 50	10ths/mm	250
Four Ball Weld Point	IP 239	KG	210
Drop Point	IP 132	°C	130-140

MACXOL EXTREME MP-3 GREASE

It is a premium quality lithium base multipurpose grease which provides protection against rusting and corrosion. It has a high drop point and excellent thermal and structural stability. This grease has also high degree of resistance to oxidation. This grade meets IS : 7623-1993(Second revision).

RECOMMENDATION:

For all type of automotive and industrial use.

PROPERTIES	METHOD	UNIT	RESULT
Appearance	BAM 300	-	Transparent & Yellow in colour
Texture	-	-	Smooth & Buttery
NLGI Grade	ASTM D217	-	3
Base oil Viscosity @100°C	IP 71	CST	10.5
Cone Penetration, Worked 60 strokes	IP 50	10ths/mm	250
Four Ball Weld Point	IP 239	KG	210
Drop Point	IP 132	°C	185-190

GREASE

MACXOL RED GREASE

It is a premium quality lithium base multipurpose grease which provides protection against rusting and corrosion. It has a high drop point and excellent thermal and structural stability. This grease has also high degree of resistance to oxidation. This grade meets IS : 7623-1993(Second revision).

RECOMMENDATION:

For all type of automotive and industrial use.

PROPERTIES	METHOD	UNIT	RESULT
Appearance	BAM 300	-	Transparent & Red in colour
Texture	-	-	Smooth & Buttery
NLGI Grade	ASTM D217	-	3
Base oil Viscosity @100°C	IP 71	CST	120
Cone Penetration, Worked 60 strokes	IP 50	10ths/mm	250-265
Four Ball Weld Point	IP 239	KG	250
Drop Point	IP 132	°C	260-270

TRANSFORMER OIL

TRANSFORMER OIL

TYPICAL PROPERTIES:

PROPERTIES	METHOD	LIMIT	RESULT
Appearance	7.1	Clear free from sediment and suspended matter	Clear free from sediment and suspended matter
Density@29.5°C Density@20°C	7.2	 <0.895	0.835 0.841
Kinematic fiscosity, MM ² /S -At 40°C -At 15°C	7.3	<16.5 <800	9.71 166.74
Flash Point (PMCC),°C	7.4	>140	154
Pour Point, °C	7.5	<=-30	-36
Interfacial Tension, N/M@25°C	7.6	>0.040	0.042
Dielectric Strenght (Break Down Voltag) KV at 60HZ Disk electrodes	ASTM D 877	30 KV Min	76
Dielectric Dissipation Factor @90°C & 40HZ-60HZ		<0.005	0.0005
Neutralization Value MG KOH/G	7.7	<0.03	0.0002
Corrosive Sulphur	7.8	Non Corrosive	Non Corrosive
Water Content, PPM	7.9	<40	14
Antioxidant Additives, %	7.10	Absent	Absent
Oxidation Stability (164 Hrs) a) Neutralization Value, MG KOH/G b) Sludge, % by mass	11.07.1/ Appendix A	<0.40 <0.10	0.046 0.008
PCB content, PPM	ASTM-4059	Not Detectable	Not Detectable
Gassing Tendency @50HZ after 120	7.14	<+5	+3

MACXOL SUPERIOR 4T 20W50

Macxol Superior 4T 20W50 is new generation four stroke engine oil. It has been developed to meet the lubricant requirements of high performance 4 stroke vehicles introduced recently. This oil is formulated with highly balanced additives. It provides excellent lubrication to engine parts.

RECOMMENDATION:

It is used for mobike engine like Bajaj, Hero, Escort, Honda, LML etc...



TYPICAL PROPERTIES

KV @ 100°C in CST	VI min	Flash Point °C COC	Pour Point °C COC	Low Temp. Cranking & Pumping Viscosity at 30 °C
17.10	96	240	-17	-

ADVANTAGES:

- Provide excellent lubrication in engine.
- Provide maximum power to the engine.
- Provide excellent lubrication to engine parts.

MACXOL SUPERIOR 4T 20W40

Macxol Superior 4T 20W40 is new generation four stroke engine oil. It has been developed to meet the lubricant requirements of high performance 4 stroke vehicles introduced recently. This oil is formulated with highly balanced additives. It provides excellent lubrication to engine parts.

RECOMMENDATION:

It is used for mobike engine like Bajaj, Hero, Escort, Honda, LML etc...



TYPICAL PROPERTIES

KV @ 100°C in CST	VI min	Flash Point °C COC	Pour Point °C COC	Low Temp. Cranking & Pumping Viscosity at 30 °C
15	94	240	-17	-

ADVANTAGES:

- Provide excellent lubrication in engine.
- Provide maximum power to the engine.
- Provide excellent lubrication to engine parts.

3-WHEELER OIL

MACXOL AUTOMAX 20W50

Macxol Automax 20W50 is new generation four stroke engine oil. It has been developed to meet the lubricant requirements of high performance 4 stroke vehicles introduced recently. This oil is formulated with highly balanced additives. It provides excellent lubrication to engine parts.



RECOMMENDATION:

It is used for mobike engine like Bajaj, TVS King, Omega, Mahendra, Atul, Komaki etc...

TYPICAL PROPERTIES

KV @ 100°C in CST	VI min	Flash Point °C COC	Pour Point °C COC	Low Temp. Cranking & Pumping Viscosity at 30 °C
17.10	96	240	-17	-

ADVANTAGES:

- Provide excellent lubrication in engine.
- Provide maximum power to the engine.
- Provide excellent lubrication to engine parts

MACXOL ULTRA SUPER 2T

Macxol Ultra 2T is superior quality 2 stroke engine oil contains diluent to provide easy mixing with petrol, provide proper lubrication to engine parts & prevents piston deposit, spark plug fouling and scuffing, This oil meet API-TC JASO FC Classification.



RECOMMENDATION:

It is recommended for Scooter, Mopeds, Motorcycle and three wheelers. This oil is also suitable for small petrol engine used in sprayers, pump dmsll generators, lawn movers, etc...

TYPICAL PROPERTIES

KV @ 100°C in CST	VI min	Flash Point °C COC	Pour Point °C COC	Low Temp. Cranking & Pumping Viscosity at 30 °C
7.8	126	230	-16	-

ADVANTAGES:

- Extends engine life, reduces pistons ring groove deposit.
- Engances power out put and ensure faster acceleration.
- Reduce exhaust smoke.

MACXOL GEARMAX OIL GL-5 220

These oil is a high-grade automotive gear oil made from highly refined base oil. It Protect highly expensive internal gear box from rust and corrosion reducing noise of operation. It is an automotive gear oil blended from carefully selected HVI mineral oil and additives.

RECOMMENDATION

It is recommended for used in gear box & gear axle of automotive & off highway vehicles. May be recommended for bevel, spiral bevel, differentials for spur gear oil lubricated joints & manually operated steering gears.



PROPERTIES	MACXOL GEARMAX OIL GL-5 220
Kin. Viscosity at 40 °C Cst	220-222
Colour	L 2.5
Viscosity Index, Min	98
Flash point (COC) °CMin	220
Pour Point (COC) °CMin	-15
Foaming behavior at 24°C	0/0ml ISO 6247
Four-ball tester material Load/weld force	4000/4200 N DIN 51250 Teil 4

ADVANTAGES:

- Very good load carrying capacity excellent anti-weld properties.
- Very good oxidation and thermal stability.
- Very good performance under extreme pressure at varying load conditions.

GEAR OIL

MACXOL GOLD GEAR OIL GL-1

These oil are rust and oxidation inhibited gear oil that are recommended for many automotive and industrial equipment.

ADVANTAGES:

- Improved rust and anti wear protection.
- Superior corrosion protection.
- Offers excellent lubricating ensuring smooth gear changes.



TYPICAL PROPERTIES

KV @ 100°C in CST	VI min	Flash Point °C COC	Pour Point °C COC	Low Temp. Cranking & Pumping Viscosity at 30 °C
18	96	225	-12	-

MACXOL GEAR OIL

10W30

These oil has an excellent lubricating film adhesion, excellent detergency and high resistance to aging.

ADVANTAGES:

- Precise, soft changing of gears, no clutch slippage.
- Neutral towards sealing compounds.
- Quick lubrication of the engine at all operating temperatures.

TYPICAL PROPERTIES

KV @ 100°C in CST	VI min	Flash Point °C COC	Pour Point °C COC	Low Temp. Cranking & Pumping Viscosity at 30 °C
12	150	220	-12	-

MACXOL TRACTOR OIL 20W40

These oil are heavy duty multi grade oils high viscosity index able for use in both summer and winter seasons. These can be used in place of SAE30, SAE40 and monogrades. It meets API SG/CD LEVEL, MIEL -2104B IS 13656 EPL1/EDL1.

ADVANTAGES:

- Provide wear protection.
- Deposit and oxidation resistance.
- Provides protection and durability demonstrated in control valve train wear and piston ring and liner wear, helping to prolong engine life

TYPICAL PROPERTIES

KV @ 100°C in CST	VI min	Flash Point °C COC	Pour Point °C COC	Low Temp. Cranking & Pumping Viscosity at 30 °C
14.4	115	230	-25	-



MACXOL PSO

Macxol Pump Set Oil (PSO) is blended from highly refined base stocks containing detergent, anti-wear, antioxidant and anti-foam additives.

Recommended for lubrication of slow medium and high stationery diesel engines equipped on agricultural pump set.



TYPICAL PROPERTIES

KV @ 100°C in CST	VI min	Flash Point °C COC	Pour Point °C COC	Low Temp. Cranking & Pumping Viscosity at 30 °C
12	134	202	-15	-

MACXOL GMO 40

These oil are General Purpose Machinery Oil manufactured from solvent refined virgin base stocks with selected antirust additive package. These oils maintain a thin film of oil under light and medium load conditions and ensure complete rust protection even during idle period.

ADVANTAGES:

- Excellent oil film strength
- Very good oiliness
- Very good of once through application and boundary lubrication



TYPICAL PROPERTIES

KV @ 100°C in CST	VI min	Flash Point °C COC	Pour Point °C COC	Low Temp. Cranking & Pumping Viscosity at 30 °C
6.5	115	190	-9	-

MACXOL ENGINE OIL 20W40

This is a top-notch engine oil, designed to excel under demanding conditions in heavyduty engines. It's blend includes high-quality base oils and a balanced mix of additives to ensure superior performance in terms of detergency, dispersancy, and anti-oxidation. This oil seems well-suited to combat common issues like oil degradation, thickening, and corrosion, providing reliable protection to the engine. Its shear stability is particularly notable, allowing it to maintain viscosity even during severe, high-temperature operations.

Moreover, it meets stringent industry standards, exceeding the API CF4/SF service classification for modern and low-emission diesel engines. Additionally, it meets or exceeds the performance requirements of several other specifications, such as Allison C4, MAN 271, US-MIL-L-2104E, CCMC D4, VW505, and IS: E-DL 3/E-PL 3.

TYPICAL PROPERTIES

KV @ 100°C in CST	VI min	Flash Point °C COC	Pour Point °C COC	Low Temp. Cranking & Pumping Viscosity at 30 °C
17.10	96	240	-17	-

ADVANTAGES:

- Resistance to Oxidation and Thermal Degradation
- Enhanced Engine Life
- Engine Cleanliness
- Good TBN Retention
- Excellent Shear Stability

SHOCKER OIL/ COOLANT

MACXOL SHOCKER OIL

These oil are premium shock absorber fluid with excellent viscosity temperature characteristics, superior oxidation stability and anti foam characteristics. It also has excellent seal compatibility and damping for use in telescopic front forks fitted on motorcycles and for piston type shock absorbers. It is specially formulated for all types of front forks of motorcycles. It is fortified with anti-oxidants and anti foam additive. The oil ensures excellent damping and has high load carrying capacity.

TYPICAL PROPERTIES

KV @ 100°C in CST	VI min	Flash Point °C COC	Pour Point °C COC	Low Temp. Cranking & Pumping Viscosity at 30 °C
4.70	152	210	-15	-

MACXOL REAL COOL COOLANT

This oil is specially formulated for Nepal Climate condition and contains chemical & additives for all kind of passenger cars, heavy vehicles and industrial generators. It meets exceed JIS-K-2234 Class II, MILA 46753 B, BS 6580, BIS 5759, ASTM D3306.

Recommended for HCVs, LCVs, Cars etc of all makes & model

ADVANTAGES:

- Protect the cooling system against freezing in winter and boil over in summer.
- Chemical inhibitors minimize corrosion of copper, solder, brass, steel, cast, cast iron and aluminum metals which are commonly used in coolant system.

BRAKE OIL

MACXOL AUTOMOTIVE BRAKE FLUID

Macxol Brake Fluid Dot3 based on glycol ether and alkyle polyglycols. It contains inhibitors to prevent the corrosion of metallic brake components and to reduce oxidation at increased temperatures. The brake fluid has a high wet and dry boiling point. Used in commercial vehicles, passenger cars and motorcycles requiring a brake fluid meeting FMVSS DOT 3 or SAEJ 1703 standards. It meets for U.S. FMVSS 166 DPT3, SAE K1703 & IS:8654 specification.



PROPERTIES	MACXOL AUTOMOTIVE BRAKE FLUID
Appearance	Clear & bright Red
Density @20°C	1.07
ERBP	210
Wet Equilibrium reflux boiling point	145
pH	8
Water Content	0.15

ADVANTAGES:

- Excellent elastomer compatibility
- Excellent low temperature behavior
- Extremely high wet and dry boiling points
- Outstanding lubricating action
- Highest thermal stability
- Miscible and compatible with high-quality synthetic brake fluids
- Excellent viscosity/temperature properties

MACXOL MARINE 4040

Macxol Marine 4040 oils are indeed innovative formulations designed specifically to cater to the demands of modern medium-speed trunk piston engines utilized in marine propulsion systems and land-based DG (diesel generator) sets. These oils have been meticulously engineered to meet the stringent requirements of such engines, ensuring optimal performance and longevity.

These oils represent a significant advancement in lubrication technology for marine and land-based engine applications, offering reliability, efficiency, and longevity in demanding operating conditions.

PROPERTIES	MACXOL MARINE 4040
Kin. Viscosity at 100 °C Cst	19
Kin. Viscosity at 40°C Cst	140
Viscosity Index, Min	9
Flash point (COC) °CMin	215-222
Pour Point (COC) °C Max	-11.5
Total Base No., mg KOH/g	40

ADVANTAGES:

- Excellent water resistance
- Very good thermal and high temperature resistance.
- Reduce build up deposits in the engine to provide reduction in the engine maintenance cost.
- Double wear protection due to the oil film strength at high pressure during operation.
- Very good viscosity control, oxidation resistance will less top-ups and no contamination with residual fuel.

MACXOL SCOOTER ENGINE OIL 10W30

This is high quality base oils are selected to ensure oil retains. Its intended properties between each service interval. Recognizing the higher engine temperatures seen in larger capacity scooters. It has developed with high thermal stability to ensure the engine is protected against damage caused by heat.



PROPERTIES	MACXOL SCOOTER ENGINE OIL 10W30
Kin. Viscosity at 100 °C Cst	11
Kin. Viscosity at 40°C Cst	72.58
Viscosity Index, Min	140
Flash point (COC) °C Min	220
Pour Point (COC) °C Max	-10.6
Total Base No., mg KOH/g	5.6

ADVANTAGES:

- Cleans and protects
- Oxidation stability
- Reduces engine heat damage
- Enhances acceleration

MACXOL UNIVERSAL TRACTOR TRANSMISSION OIL [UTTO]

These oil are based on mineral oil with specially tailored additives. It improved protection against wear while also reducing noise. It designed for use in a wide variety of modern farm equipment.



PROPERTIES	MACXOL SCOOTER ENGINE OIL 10W30
Kin. Viscosity at 100 °C Cst	10.6
Kin. Viscosity at 40°C Cst	69.5
Viscosity Index, Min	135-141
Flash point (COC) °CMin	225
Pour Point (COC) °C Max	-10.6

ADVANTAGES:

- Protection against potential damage through the wrong oil being used
- Improved equipment life by ensuring the right oil is used every time
- Robust additive technology ensuring smooth and quiet transmission/differential operation
- Reduced maintenance costs compared with using individual oils
- Excellent low Temperatures fluidity provides good response and effective lubrication at low ambient temperatures

GREASE

MACXOL PREMIUM MULTI MP-3 GREASE

Premium Multi MP3 grease is made with specialty antioxidants additives. It provides water resistant and extreme pressure properties. It can be used for all seasons. It is recommended for use in chassis, anti-friction bearing lubrication of machinery & vehicles and other equipment.



PROPERTIES	METHOD	UNIT	RESULT
Appearance	BAM 300	-	Light Yellow
Texture	-	-	Smooth & Buttery
NLGI Grade	ASTM D217	-	3
Drop Point	IP 132	°C	115-125

ADVANTAGES:

- Excellent adhesive property.
- Minimum leakage and loss in wash due to strong resistance to water
- Well distributed texture.
- Superior mechanical and shear stability.

GREASE

MACXOL AUTO CARE AP-3 GREASE

Macxol Auto Care AP-3 Grease is multi functional grease processed from premium quality oil and chemicals fortified with extreme pressure additives which offers mechanical stability and water washout resistivity.

PROPERTIES	METHOD	UNIT	RESULT
Appearance	BAM 300	-	Greenish
Texture	-	-	Smooth & Buttery
NLGI Grade	ASTM D217	-	3
Drop Point	IP 132	°C	115-125

ADVANTAGES:

- Excellent adhesive property.
- Minimum leakage and loss in wash due to strong resistance to water
- Well distributed texture.
- Superior mechanical and shear stability.

MACXOL POWER RIDE 4T 20W40

Macxol Power Ride 4T 20W40 oil is new generation four stroke engine oil. It has been developed to meet the lubricant requirements of high performance 4 stroke vehicles introduced recently. This oil is formulated with highly balanced additive. It provides excellent lubrication to engine parts.

RECOMMENDATION:

It is used for mobike engine like Bajaj, Escort, Hero, Honda, LML etc...



PROPERTIES	MACXOL POWER RIDE 4T 20W40
Kin. Viscosity at 100 °C Cst	12
Kin. Viscosity at 40°C Cst	85
Flash point (COC) °CMin	220
Pour point (COC) °CMin	-15

ADVANTAGES:

- Provide excellent lubricants in engine.
- Provides Maximum power to the engine.
- Prevents pre ignition, spark plug fouling, rusting & part blockage.

MACXOL POWER RIDE 4T 20W50

Macxol Power Ride 4T 20W50 oil is new generation four stroke engine oil. It has been developed to meet the lubricant requirements of high performance 4 stroke vehicles introduced recently. This oil is formulated with highly balanced additive. It provides excellent lubrication to engine parts.

RECOMMENDATION:

It is used for mobike engine like Bajaj, Escort, Hero, Honda, LML etc...



PROPERTIES	MACXOL POWER RIDE 4T 20W40
Kin. Viscosity at 100 °C Cst	12.5
Kin. Viscosity at 40°C Cst	8§
Flash point (COC) °CMin	225
Pour point (COC) °CMin	-15

ADVANTAGES:

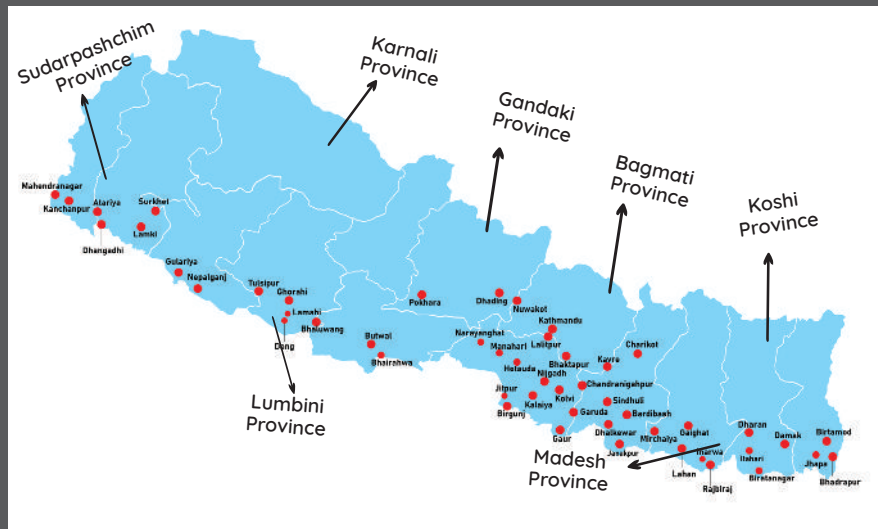
- Provide excellent lubricants in engine.
- Provides Maximum power to the engine.
- Prevents pre ignition, spark plug fouling, rusting & part blockage.



COMPANY CATALOGUE 2025

Holding ISO-9001:2015 certification, accredited by IAF from the USA, assures us of our commitment to quality.

Supply Quality Lubricants Across Nepal, Wherever you are



With 25 years of experience, our products surpass international standards, ensuring top-notch quality, consistency, and customer satisfaction. We sincerely thank our loyal customers for their unwavering support.

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