

# Machine Oil Series

## + Product Features

- Friction, wear, and the like where the particular sliding property required.
- High-temperature, high-pressure, where the need to meet the extreme lubrication conditions of the cryogenic.
- Places that require replacement intervals and machine lubricant life
- Mechanical properties significantly, the type, viscosity used selectively according to the characteristics of the locations to vary
- Excellent low temperature properties, high temperature stability, high viscosity index, high extreme pressure performance and low volatility,
- Low friction coefficient, anti-emulsifying, anti-oxidation stability, rust and corrosive, foam stability, excellent clean dispersion,

## + Product Category

- Petroleum machine oil : Using highly purified saturated hydrocarbons
- Synthetic polyalphaolefin machine oil: a linear alpha-olefin oligomers (PAO)
- Synthetic ester machine oil : Neo polyol ester (Neopolyol esters), Fatty acid esters (Di-basic acid esters)
- Synthetic poly-alpha-olefin and ester machine oil : PAO & Ester mixed use

## + Product Applications

- Circulation, oil yoksik, the friction surfaces of the various machines in a secret way lubrication method, sliding surfaces, lubrication points, such as bed side,
- Mechanical properties is desired lubrication points, extreme pressure and durability desired lubrication points,
- Friction and wear performance should be superior lubrication points, lubrication points are less frictional resistance coefficient
- Various industrial machinery machine oil, light-heavy load of high-speed rotating machinery, high-speed machine tools, machine oil of various precision instruments
- Anti-rust oil, cutting agents, quenching oil, textile emulsions, release agents, plasticizers such as a Base Oil

## Mineral Bases Machine Oil Series

Separation	Specific Gravity 15/4°C	Viscosity cSt 40°C	Flash Point °C	Pour Point °C	Viscosity Index	Corrosive Test (100°C×3h)	Application
LAC 2	0.7784	1.98~2.42	80 ↑	-10 ↓	-	1a	Saturated hydrocarbon compounds and refined. Oil-water separation and anti-excellent oil paintings in various industrial machines machine oil, light-heavy duty high speed rotation machines, high speed machine tool, precision machinery, rust preventive oil, coolant, hardening oil, plasticizers and various other fiber-emulsion, brothers, Lube Base Oil,
LAC 3	0.7866	2.88~3.52	80 ↑	-10 ↓	-		
LAC 5	0.7955	4.14~5.06	80 ↑	-10 ↓	-		
LAC 7	0.8522	6.12~7.48	130 ↑	-10 ↓	78		
LAC 10	0.8542	9.00~11.0	130 ↑	-10 ↓	80		
LAC 15	0.8560	13.5~ 16.5	160 ↑	-10 ↓	80		
LAC 22	0.8561	19.8~24.2	150 ↑	-10 ↓	100		
LAC 32	0.8630	28.8~35.2	150 ↑	-10 ↓	100		
LAC 46	0.8754	41.4~56.0	160 ↑	-10 ↓	100		
LAC 68	0.8765	61.2~74.8	160 ↑	-10 ↓	100		
LAC 100	0.8765	90.0~110.0	160 ↑	-10 ↓	100		
LAC 150	0.8785	135~165	160 ↑	-10 ↓	100		
LAC 220	0.8754	198~242	160 ↑	-10 ↓	100		
LAC 320	0.8765	288~352	160 ↑	-10 ↓	100		
LAC 460	0.8785	414~506	160 ↑	-10 ↓	100		

## Synthetic Polyalphaolefins Machine Oil : PAO Basestock

Separation	Specific Gravity 15/4°C	Viscosity cSt 40°C	Flash Point °C	Pour Point °C	Viscosity Index	Corrosive Test (100°C×3h)	Application
LAC Syn 5	0.7907	4.14~5.06	160 ↑	-40 ↓	-	1a	Linear alpha-olefin oligomer synthesis users on-the-high-temperature stability, high viscosity indices, low volatility, high thermal stability, oxidation-hydrolysis stability, non-toxic, oily water separation and hang oil paintings Oil Base lubricant, synthetic voice,
LAC Syn 7	0.8076	6.12~7.48	180 ↑	-40 ↓	-		
LAC Syn 10	0.8220	9.00~11.0	180 ↑	-40 ↓	120		
LAC Syn 15	0.8230	13.5~ 16.5	200 ↑	-40 ↓	120		
LAC Syn 22	0.8230	19.8~24.2	210 ↑	-40 ↓	140		
LAC Syn 32	0.8231	28.8~35.2	220 ↑	-40 ↓	140		
LAC Syn 46	0.8305	41.4~56.0	230 ↑	-40 ↓	140		
LAC Syn 68	0.8315	61.2~74.8	230 ↑	-40 ↓	140		
LAC Syn 100	0.8315	90.0~110.0	230 ↑	-40 ↓	140		
LAC Syn 150	0.8330	135~165	230 ↑	-40 ↓	140		
LAC Syn 220	0.8350	198~242	240 ↑	-40 ↓	140		
LAC Syn 320	0.8350	288~352	240 ↑	-40 ↓	140		

## ✚ Synthetic Ester Basestock Machine Oil

Separation	Specific Gravity 15/4°C	Viscosity cSt 40°C	Flash Point °C	Pour Point °C	Viscosity Index	Corrosive Test (100°C×3h)	Application
LAC DE 5	0.9150	4.14~5.06	200 ↑	-40 ↓	-	1a	High-temperature stability, the pole pressure lubrication the viscosity-temperature relationship, biodegradable, excellent stability, low evaporation loss, thermal-oxidative stability, abrasion resistance, shear stability low friction coefficient,
LAC DE 7	0.9202	6.12~7.48	200 ↑	-40 ↓	-		
LAC DE 10	0.9220	9.00~11.0	200 ↑	-40 ↓	130		
LAC DE 15	0.9230	13.5~ 16.5	200 ↑	-40 ↓	130		
LAC DE 22	0.9231	19.8~24.2	210 ↑	-40 ↓	130		
LAC DE 32	0.9233	28.8~35.2	220 ↑	-40 ↓	60		
LAC DE 46	0.9240	41.4~56.0	230 ↑	-40 ↓	60		
LAC DE 68	0.9240	61.2~74.8	230 ↑	-30 ↓	60		
LAC DE 100	0.9501	90.0~110.0	230 ↑	-30 ↓	80		
LAC DE 150	0.9520	135~165	230 ↑	-30 ↓	70		
LAC DE 220	0.9530	198~242	240 ↑	-30 ↓	70		
LAC DE 320	0.9605	288~352	240 ↑	-30 ↓	70		

## ✚ Synthetic Polyalphaolefins & Ester Basestock Machine Oil : PAO & Ester

Separation	Specific Gravity 15/4°C	Viscosity cSt 40°C	Flash Point °C	Pour Point °C	Viscosity Index	Corrosive Test (100°C×3h)	Application
LAC PE 5	0.8305	4.14~5.06	180 ↑	-40 ↓	-	1a	High-temperature stability, the pole pressure lubrication, oxidation stability, viscosity-temperature-stable, low evaporation loss, low frictional resistance coefficient range is broad, there are loads of extreme temperature-lubrication.
LAC PE 7	0.8522	6.12~7.48	180 ↑	-40 ↓	-		
LAC PE 10	0.8542	9.00~11.0	180 ↑	-40 ↓	110		
LAC PE 15	0.8570	13.5~ 16.5	200 ↑	-40 ↓	120		
LAC PE 22	0.8561	19.8~24.2	210 ↑	-40 ↓	120		
LAC PE 32	0.8630	28.8~35.2	220 ↑	-40 ↓	130		
LAC PE 46	0.8754	41.4~56.0	230 ↑	-40 ↓	130		
LAC PE 68	0.8765	61.2~74.8	230 ↑	-30 ↓	140		
LAC PE 100	0.8765	90.0~110.0	230 ↑	-30 ↓	140		
LAC PE 150	0.8785	135~165	230 ↑	-30 ↓	140		
LAC PE 220	0.8754	198~242	240 ↑	-30 ↓	140		
LAC PE 320	0.8765	288~352	240 ↑	-30 ↓	140		