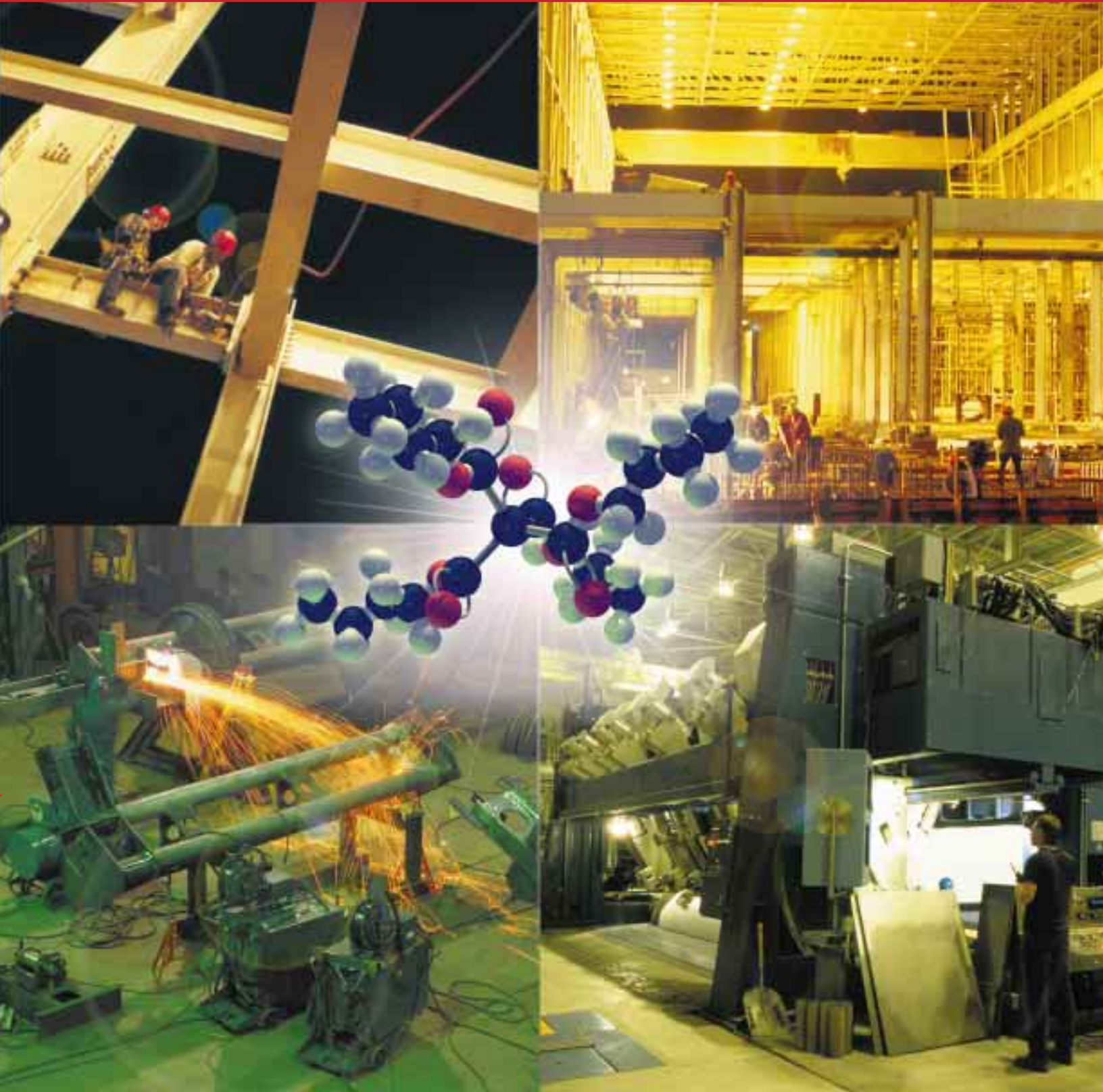




Industrial Grade Synthetic Compressor Oils



PERFORMANCE DESIGNED FOR INDUSTRY

The FIRST in Synthetics *...the FIRST in Performance*

AMSOIL Synthetic Compressor Oils increase the productivity and profitability of your operations.

AMSOIL synthetic lubricants are superior to conventional lubricants in areas of thermal and oxidative stability, expanded high and low operational temperature ranges, increased heat transfer capabilities, reduced energy consumption and extended drain capabilities.

Scientifically Designed Created by science rather than by geological accident, AMSOIL synthetic base fluids are pure, synthesized fluids obtained by precise chemical reaction. The chemical makeup and unique properties improve virtually every aspect in lubrication – particularly in severe operating conditions.

Pure Construction The carefully controlled and monitored processes used to manufacture AMSOIL synthetic base fluids eliminates impurities, contaminants and unsaturation – the primary cause of lubricant breakdown which commonly plague conventional lubricants. Uniform molecular geometry improves efficiency and has demonstrated reduced heat and energy consumption – a direct savings.

Bottom Line AMSOIL synthetic compressor oils increase the productivity and profitability of your operations. By providing superior overall lubricating performance, you can expect longer lasting compressors, fewer unscheduled maintenance requirements, less oil consumption and improved operating efficiency. In addition, AMSOIL compressor lubricants last several times longer than conventional lubricants resulting in lower maintenance and waste oil disposal costs. Through better lubrication, AMSOIL improves your bottom line.

The leader in synthetic lubrication design, AMSOIL introduced the world's first American Petroleum Institute rated synthetic motor oil in 1972.



AMSOIL Synthetic Compressor Oils are ...

- ***Designed for compressors used in extreme, severe or routine service.***
- ***Manufactured from top-quality synthetic-based fluids according to a stringent process quality control protocol.***
- ***Consistent in the delivery of dependable, clean lubrication and long-lasting protection.***
- ***Represented by trained and certified sales personnel and backed by a team of support technicians.***
- ***Sold factory-direct at competitive prices.***
- ***Available in a complete line of viscosity grades.***
- ***Your best assurance of compressors that stay on-line and production that remains on-schedule.***

AMSOIL® *The FIRST in Synthetics* *...the FIRST in Quality*

Advantage AMSOIL: Protection



AMSOIL synthetic compressor oils form virtually no foam during ASTM D892 testing.



Before AMSOIL, discharge is an oil/water emulsion

After AMSOIL, emulsion is eliminated

AMSOIL Synthetic Compressor Oils are designed for optimum compressor lubrication and protection. They extend compressor life and reduce maintenance costs by fighting all of the degradative processes found in compressor applications.

Heat Control

AMSOIL Synthetic Compressor Oils have demonstrated temperature reductions of hot running equipment using conventional lubricants by as much as 40° F. This is due to the oil's low coefficient of friction, low internal fluid friction and good thermal conductivity.

Sludge, Varnish, Lacquer and Carbon Control

AMSOIL Compressor Oils' unique synthetic base oil technology is inherently resistant to thermal and oxidative breakdown. These oils, combined with premium anti-oxidants, result in oils that eliminate or greatly minimize the formation of sludge, varnish, lacquer and carbon. Also, the good solvency characteristics clean systems as well as provide keep-clean performance.

Corrosion, Emulsion and Foam Control

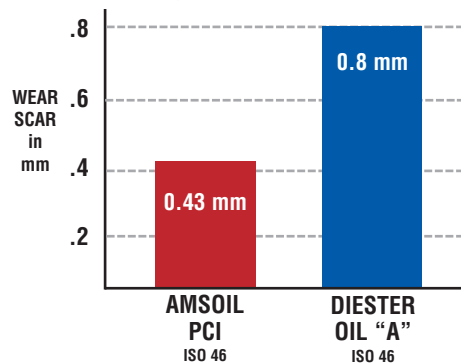
AMSOIL Synthetic Compressor Oils are stable in the presence of water, and they readily separate from water. This prevents unwanted oil/water emulsions that inhibit an oil's ability to lubricate. It allows for longer lubricant life, and it means water can easily be drained from the sump. The top quality rust preventatives offer complete and dependable protection to components in the presence of water or process contaminants. And an uninterrupted film of protection is ensured by anti-foam agents that keep the fluid foam-free even in high-speed, high-pressure operations.

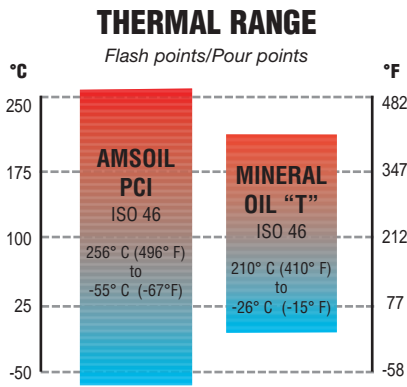
Wear Protection

AMSOIL Compressor Oils' non-detergent additive system is the last line of defense against wear. The additive system forms a strong barrier on parts, preventing metal to metal contact, and as the industry standard Four-Ball Wear Test (ASTM D4172) indicates, AMSOIL Compressor Oils outperform competitive compressor oils, even other synthetics. As a result, wear decreases, maintenance decreases, component life increases and you benefit financially.

FOUR BALL WEAR TEST

1200 rpm, 75° C, 40 kg., 1 hr





All-Season Performance

Low pour points and good thermal stability allow AMSOIL Compressor Oils to be used in a wide temperature range. In cold temperatures, AMSOIL Compressor Oils provide easier starts and fast post start-up lubricant circulation to parts. In higher temperatures, AMSOIL Compressor Oils' film strength maintains a thick lubricating film between moving parts, ensuring complete protection all season long. These features reduce the need for seasonal fluid changes and mean an overall savings for you.

Greater Safety

AMSOIL Synthetic Compressor Oils make your plant a safer place to work by minimizing fire and explosion hazard. AMSOIL Compressor Oils' flash, fire and auto ignition points are higher than those of competitive petroleum fluids. Plus, their resistance to carbon deposit formation combined with the ashless additive system minimizes the incidence of ignition-promoting hot spots.

Advantage AMSOIL: Savings



Your choice of compressor oil affects more than compressor life. It affects profitability. With AMSOIL Compressor Oils, you will increase your profitability through lower energy consumption, lower lubricant consumption and lower maintenance costs.

Enhanced Efficiency

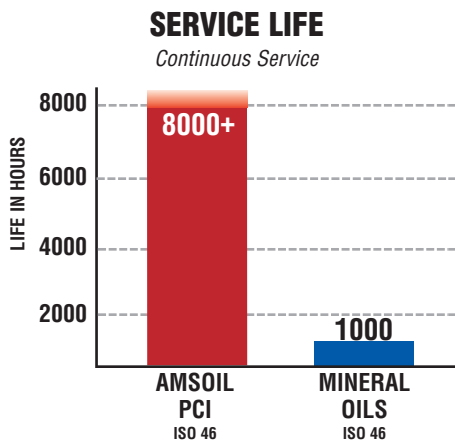
Because of AMSOIL Compressor Oils' low frictional characteristics, losses due to drag are minimized, and energy used for gas compression is maximized. Also, little or no carbon forming on valves limits the detrimental effect of recompression, which is the result of hot air continually being recompressed due to deposits not allowing the exhaust valves to completely close during the intake stroke. Increase in efficiency can result in reduced power consumption by as much as 7 to 8 percent.

Reduced Lubricant Consumption

AMSOIL Synthetic Compressor Oils reduce fluid loss by readily separating oil from air in the separator, increasing the separator's efficiency and reducing the likelihood of oil ending up downstream. Also, their low volatility and excellent stability in the face of shearing forces and high temperatures leave more lube in the system, less lost to operations.

Lower Maintenance Costs

AMSOIL Synthetic Compressor Oils may be used up to 8000+ hours when used with a conscientiously applied oil sampling and preventative maintenance program. Extended drain intervals cut the downtime, labor and disposal costs associated with lube changes to an eighth of that required by conventional fluids.



AMSOIL Synthetic PC Compressor Oils



AMSOIL Synthetic PC Compressor Oils are made from high quality, shear stable synthetic base oils that provide long compressor life through reduced component wear, corrosion protection, water resistance and resistance to lubricant breakdown. These oils also extend drain intervals and reduce maintenance costs by lowering labor and used oil disposal requirements.

AMSOIL PC Compressor Oils' proprietary combination of unique synthetic base oils combines the advantages of esters and Poly Alpha Olefins (PAO's) into one balanced product. The naturally high viscosity indices, low pour points, low volatility and excellent thermal stability make the PC Series good for use in a wide operating temperature range. These oils prevent carbon build-up, provide clean performance and exhibit low frictional characteristics. These attributes increase operational efficiency and have demonstrated reduced energy consumption and operating temperatures.

AMSOIL PC Oils are recommended for use as high-quality replacements for high-priced original equipment manufacturer synthetic lubricants. Applications include vacuum pumps and single or multi-stage rotary screw, vane and reciprocating compressors. The correct viscosity grade of AMSOIL PC Oils can also be used in light duty gear and bearing applications, blowers, pumps, pneumatic tools and hydraulic or circulating systems. Consult the manufacturer for viscosity recommendations.

AMSOIL Compressor Oils are compatible with petroleum oils, most synthetic oils and almost all seals, paints and materials commonly used in compressors. Compressors lubricated with compatible fluids may be converted simply by draining the old fluid and installing AMSOIL.

Process Gases suitable for use with the PC Series Oils:

Nitrogen, hydrogen, helium, carbon monoxide, carbon dioxide (dry), ethylene, ethane, methane, propane, butane, propylene, butylene, natural gas, benzene, butadiene, furnace (crack gas), hydrogen sulfide (dry), sulfur hexafluoride, synthetic gas, sulfur dioxide.

Consult your AMSOIL Industrial Distributor or AMSOIL INC. for additional information on compatibility.

AMSOIL PC Series Compressor Oils are not recommended for "breathing air" or refrigeration compressors. Marginal compatibility with polycarbonate plastic, butyl, ethylene-propylene and SBR rubber. Not compatible with silicon or glycol fluids such as PAG's.

AMSOIL Synthetic PC Series Compressor Oil Typical Specifications

	PCH ISO 32	PCI/ROT ISO 46	PCJ ISO 68	PCK/REC ISO 100	PCL ISO 150
ISO VG (ASTM D2422)	32	46	68	100	150
Viscosity, cSt @ 40° C (ASTM D445)	32.50	45.25	68.85	100.79	150.28
Viscosity, cSt @ 100° C (ASTM D445)	6.05	7.55	10.35	13.72	17.95
Viscosity Index (ASTM D2270)	135	133	136	137	133
Density, lbs./gal. (ASTM D1298)	7.033	7.063	7.105	7.152	7.208
Flash Point, °C (°F) (ASTM D92)	262 (504)	256 (493)	260 (500)	254 (489)	252 (486)
Fire Point, °C (°F) (ASTM D92)	278 (532)	272 (522)	264 (504)	274 (525)	282 (540)
Pour Point, °C (°F) (ASTM D97)	-55 (-67)	-55 (-67)	-49 (-56)	-45 (-49)	-39 (-38)
Foam, ml. (ASTM D892)					
Test end: Sequence I, II, III	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
After 10 min. settling: Sequence I, II, III	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
Noack, percent weight loss (DIN 51581)	5.00	5.50	4.99	5.20	5.32
Four-Ball Wear, scar in mm, (ASTM D4172 Mod)					
40 kg, 1200 rpm, 75° C, 1 hr	0.44	0.43	0.44	0.40	0.40
Copper Strip Corrosion (ASTM D130)	1A	1A	1A	1A	1A

Cross Reference

	PCH ISO 32 SAE 10	PCI/ROT ISO 46 SAE 20	PCJ ISO 68 SAE 30	PCK/REC ISO 100 SAE 40	PCL ISO 150 SAE 50
Atlas Copco		GA-8K			
Champion		PAO 46			
Chevron	Tegra 32		Tegra 68	Tegra 100	
Conoco	Syncon 32	Syncon 46	Syncon 68	Syncon 100	
CPI	CP-4601-32	CP-4601-46	CP-4601-68	CP-4601-100	CP-4601-150
Dubois		Ultragard 200	Ultragard 300		
Gardner Denver		AEON 9000/9000SP			
Huls America	Anderol 3032	Anderol 3046	Anderol 3068	Anderol 3100	Anderol 3150
Ingersoll-Rand				XL-T30	
Joy		AEON 9000/9000SP			
Keystone		KSL 800/720	KSL 719		
LeRoi		SSL-46			
Mobil	Rarus SHC 924 Rarus SHC 1024		Rarus SHC 926 Rarus SHC 1026		
Pennzoil		Pennzcom P 46			
PSI		PX20			
Quincy		Quinsyn			
Royal	Royco 432	Royco 446	Royco 468	Royco 486	Royco 489
Royal Purple		Synfilm 46	Synfilm 68		
Shell	Madrella AS 32		Madrella AS 68		
Sullair	LLL-4-32	LLL-4-46	LLL-4-68	LLL-4-100	
Summit		SH46SynCar 46	SH46/SynCar 68		
Synflo		Synflo XP80			
Ultrachem	Chemlube 221		Chemlube 228		

AMSOIL Suggested Replacements for Competitive Diester Lubricants

	PCH ISO 32 SAE 10	PCI/ROT ISO 46 SAE 20	PCJ ISO 68 SAE 30	PCK/REC ISO 100 SAE 40	PCL ISO 150 SAE 50
Amoco	Syntho. SL 32		Syntho SL 68	Syntho SL 100	Syntho SL 150
Cato	Synguard 32		Synguard 68	Synguard 100	
CompAir	CS 100		CS 200	CS 300	CS 400
CPI	CP-4100-32		CP-4100-68	CP-4100-100	CP-4100-150
Dubois	Summa Rotor		Summa 20	Summa Recip.	
Elf		Barelf 46	Barelf CH 68	Barelf CH 100	
Exxon	Synesstic 32		Synesstic 68	Synesstic 100	Synesstic 150
Gardner Denver			AEON 8000	AEON 5000	
Huls America	Anderol 495	Anderol 496	Anderol 497	Anderol 500	Anderol 750
Ingersoll-Rand			SSR Coolant	T-30 Select, XL-700	XL-740HT
Kaeser	325-R		687-R	150-P	175-P
Keystone	KSL 214		KSL 220	KSL 219	KSL 222
Mobil	Rarus 824		Rarus 826	Rarus 827	Rarus 829
Tribol*	890 Light		890 Medium	890 Heavy	
Pennzoil	Pennzcom S32	Pennzcom S46	Pennzcom S68	Pennzcom S100	Pennzcom S150
Phillips	Philesco 32		Philsco 68	Philsco 100	
PSI	S 1500		S 2000	S 3000	
Royal	Royco 4032		Royco 4068	Royco 4100	Royco 4150
Royal Purple				Synfilm 100	
Shell				Madrella P 100	Madrella P 150
Summit	DL-10/DSL 32		DL-20/DSL 68	DL-30/DSL 100	
Synflo		Synflo 70		Synflo 90	
Texaco	Syn-Star DE 32		Syn-Star DE 68	Syn-Star DE 100	
Ultrachem	Chemlube 215		Chemlube 230	Chemlube 501	Chemlube 751
Unocal	Triton Syn 32	Triton Syn 46	Triton Syn 68	Triton Syn 100	Triton Syn 150

* Molub-Alloy

For applications requiring full diester-based lubricants, contact your AMSOIL representative or the AMSOIL Industrial Division for information and availability.

AMSOIL Synthetic Compressor Oils Application Guide

MANUFACTURER	TYPE	PCH ISO 32 SAE 10	PCI/ROT ISO 46 SAE 20	PCJ ISO 68 SAE 30	PCK/REC ISO 100 SAE 40	PCL ISO 150 SAE 50	MANUFACTURER	TYPE	PCH ISO 32 SAE 10	PCI/ROT ISO 46 SAE 20	PCJ ISO 68 SAE 30	PCK/REC ISO 100 SAE 40	PCL ISO 150 SAE 50
Atlas Copco	Reciprocating			X	X		Ingersoll-Rand	PACAIR		X			
Champion	Rotary Screw	X	X	X			<i>continued</i>	SSR 2000		X			
	Reciprocating			X				CENTAC	X				
Chicago Pneumatic	Rotary Screw			X	X			AXI-H					X
	Rotary Screw		X				Joy	Reciprocating					X
Curtis	Reciprocating			X			Kellogg-American	Rotary Screw		X			
Davey	Rotary Vane				X			Reciprocating			X	X	
Dunham-Bush	Rotary Screw		X					Rotary Screw		X			
Elliott	PAP Centrifugal	X					Leroi	Rotary Vane			X	X	
	Rotary Vane							Reciprocating	X	X			
Gardner Denver	Reciprocating			X	X		Quincy	Reciprocating			X	X	
	Rotary Screw		X	X				Rotary Screw		X	X		
Ingersoll-Rand	Type 30 & 40			X	X		Schramm	Reciprocating			X	X	
	ESV & ESH				X	X		Rotary Screw		X			
	XLE			X	X		Sullair	Rotary Screw	X	X			
	XHE & PHE				X	X		Reciprocating				X	
LLE				X	X	Worthington	Reciprocating					X	
							Rotary Screw				X		

This guide provides general information to assist you in determining which AMSOIL product to use. Viscosity recommendations are based on normal operating temperatures. Please consult the owners' manuals for lubricant recommendations on your specific compressor units. Contact your AMSOIL representative or AMSOIL Industrial for further information.

NOTE: Ingersoll-Rand SSR Ultra Coolant and Sullube 32 are not compatible with AMSOIL PC Series oils. Consult AMSOIL for flushing procedures. Sullair 24 KT is a silicone-based oil and is not compatible with AMSOIL PC Series oils. Consult AMSOIL for further information.



"I was initially attracted to AMSOIL for its price. Now, I'm switching all the plant's air compressors to AMSOIL because I'm impressed with the product. AMSOIL Compressor Oil was found 'fit for ongoing service' after 8400 hours of use. Performance like that takes a top-quality product.

"AMSOIL gives me the best of both worlds: the top-quality performance of a synthetic and manufacturer-direct savings. That's an unbeatable combination."

– Don Ussery, World Color Printing

"I credit AMSOIL Compressor Oil with savings in five areas. By helping our compressors run

20 to 40° F cooler, we no longer need fans and special ventilation systems for heat reduction. With those cooler operating temperatures and the fluid's superior stability, our valves don't carbon up, so we don't have to replace them as often. Our compressors draw 10 percent less amperage with AMSOIL. Our oil consumption is way down. And we've gone from three month to 8000 hour compressor oil drain intervals. Multiply those savings times thousands of compressors and you can see why we're installing AMSOIL nationwide."

– John Small, Sears

For applications and recommendations, contact your local AMSOIL industrial sales representative or AMSOIL INC.

AMSOIL
"The First in Synthetics"