## CPI Fluid Engineering

**Lubricants for Ammonia Compressors** 







# Why Use Semi-Synthetics and Synthetics?

Semi-synthetic and synthetic lubricants provide improved performance over traditional mineral oils with ammonia. Benefits include:

#### **Cleaner operation**

- Oxidatively stable-reduced sludge and varnish build-up, longer system life
- Corrosion protection-enhanced system reliability, reduced down-time

#### Low volatility

- Decreased maintenance
- Significantly reduced lubricant consumption

#### Low carryover

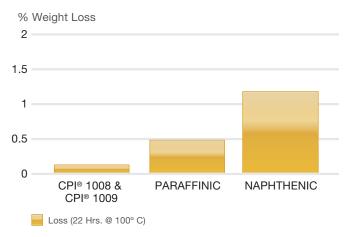
• Improved evaporator efficiency

#### Low pour point

- Easier oil removal Cost savings
- Longer oil life
- Reduced oil changes
- Extended drain interval



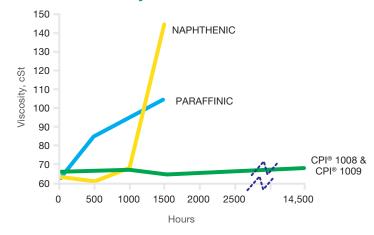








#### **Viscosity as a Function of Time**



### **Lubricants for Ammonia Compressors**

CPI's line of ammonia lubricants have been extensively tested in our laboratories and have proven field performance, as well as OEM approvals.

CPI Engineering Services is your one-stop shop for all of your ammonia lubricant needs.

We have ammonia lubricants for every application, whether you have a system that runs at low temperatures or direct expansion. To minimize ammonia leaks, we offer patented seal swell technology in many of our products.

All of our ammonia lubricants are acceptable for use in food processing facilities, so you can feel confident that the products can be used in your food processing application as part of your HACCP plan.

Product	Viscosity @ 40° cSt ASTM D445	Viscosity Index ASTM D2270	Pour Point (°C) ASTM D97	Description/Recommended Application	NSF Registered
CPI®-1009-68	68	100	-39	Formulated with high quality hydrotreated mineral oil, combined with an excellent performance additive package.  Recommended for screw and reciprocating compressors.	No fee Composeds Program Listed (40) (Registration 13 807)
CPI®-1008-68	68	111	-39	Provides all of the performance expected from CPI®-1009-68, but is additionally formulated with a patented seal swell technology.  Recommended for screw and reciprocating compressors.	NSF Notice Companies Program Later (42) (Hogamoton 14-004)
CPI®-4614-68-F	62.9	134	-54	Formulated with polyalphaolefin basestock. Exhibits excellent performance in systems where the evaporator temperature is below -40° C.  Recommended for screw compressors with low evaporator temps and food grade applications.	NSF Notice Company to Proper Label (91) (Hogistration 13-800)
CPI®-4628-68	59.1	131	-54	Combines excellent low temp performance with our patented seal swell technology.  Recommended for screw compressors with low evaporator temps.	
CPI®-4647-68	64.3	110	-45	Formulated with polyalphaolefin and alkylbenzene base stocks.  Recommended for screw and reciprocating compressors with evaporator temps above -45° C.	
CPI®-412-100DX	98.1	108	-32	Provides the miscibility necessary for direct expansion systems.  Recommended for direct expansion evaporators.	

Who is CPI?

CPI Fluid Engineering is a division of The Lubrizol Corporation. The Lubrizol Corporation, a Berkshire Hathaway

company, is an innovative specialty chemical company that produces and supplies technologies to customers

in the global transportation, industrial and consumer markets.

CPI Fluid Engineering is a world leader in synthetic lubricants for compressors and specialty industrial

applications. Our formulation and technical application expertise, combined with our flexibility and

responsiveness, enhance the quality and value of our customers' products. CPI delivers fluid performance,

technology support and customer service to meet customer needs.

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