

## **ArChine Cleantek ACL**

### **Cleaner for Compressors**

#### **Product Description**

ArChine Cleantek ACL is designed to be an easy to use concentrate which is added to the existing compressor lubricant to condition and clean rotary screw and vane compressor.

Specially designed synthetic esters and surfactants are fully formulated with proprietary coupling agents, stabilizers, and rust and corrosion inhibitors to provide effective cleaning without sacrificing lubricating properties. Loosens and dissolves varnish, carbon, sludge, and other contaminants.

#### **Benefits**

- *Easy to use: 3, 5 or 10 percent by volume is added to existing compressor lubricant.*
- Will dissolve varnish and suspend sludge accumulated in rotary-screw and vane compressors.
- Suitable for use in systems with all types mineral oil based and synthetic oils.
- Equipment can operate normally during cleaning process.
- Lower maintenance costs and downtime to clean system.
- Helps to eliminate the need for teardown and mechanical cleaning of parts.
- Solvent-free concentrated lubricating cleaner and conditioner that does not contain any strong amines, sulfonic acids or other harsh chemicals which may result in offensive odors during compressor operation.
- Good lubricity and suitable viscosity grade for compressor operation.
- Longer life and improved efficiency may be achieved with the subsequent lubricant fill.
- Promotes lower wear to mechanical parts and bearings, etc.
- Compatible with seals normally used in compressors.
- Safe for use with all ferrous and non-ferrous metals.

#### **Distributor Wanted**

Shanghai PingYiao Trading CO., Ltd.

Tel: 86-21-64705533

Address: A1207, Yin Hai Building, No.250, Caoxi Road, Xuhui District, Shanghai  
200235 P.R.China

Telephone helpline: (86)15900706965

Fax: 86-21-64705533-209

Website: [www.pingyiao.com](http://www.pingyiao.com)

E-mail: [info@pingyiao.com](mailto:info@pingyiao.com)

- May be suitable for use in systems such as paper machines, turbines, heat transfer systems, etc.

For maximum benefit use 3% ArChine Cleantek ACL prior to each lubricant change to keep systems operating efficiently.

### *Improve Compression Efficiency*

Cleanliness in compressor lubrication systems is required to achieve efficient lubricant flow rates and cooling; and improves lubricant and bearing life. Varnish and hard deposits in the compressor's lubricating/coolant system and can cause a number of serious mechanical problems and loss of efficiency and higher operational costs. These types of contaminants are formed when the compressor lubricant has oxidized or otherwise broken down. It is advisable to clean systems that have been in use for extended periods to remove the accumulation of varnish, sludge, and other contaminants from the oil circulating system, return lines, bearings and other elements of the lubrication system. Cleaning may also be required before changing the compressor lubricant, or when a new brand of lubricant is being introduced to the system.

## **Procedure for using ArChine Cleantek ACL**

### **Cleaning and Conditioning Rotary Vane and Screw Air Compressors**

Easy to use ArChine Cleantek ACL is added to the existing used lubricant or to fresh lubricant

*For periodic conditioning, maintenance or flushing (removes light deposits) use 3 to 5%*

1. Add 3% ArChine Cleantek ACL to the air compressor and operate 4 to 5 days before the replacement with new air compressor oil, then drain out completely.

For example, add 3 Liters of ArChine Cleantek ACL to 97 Liters of compressor oil in the machine. You may need to remove some of the current oil in the machine. Use 5 liters ArChine Cleantek ACL to every 95 Liters if light varnish is expected in the machine (for example, if the acid number of the used oil is >2).

Drain the oil while warm to avoid re-depositing any suspended contaminants.

2. If all the used oil cannot be removed, or there is more than 5% remaining, then add new oil with ArChine Cleantek ACL and run about 30 minutes, drain

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completely.

Flushing with a small amount of new lubricant until the drained lubricant appears clear and free of particles is recommended. Inspect coalescing elements and replace if necessary.

3. Replace filters, and Refill with new compressor lubricant. *If converting to a lubricant to be used in food processing applications, an additional flush with the new lubricant is recommended to ensure lubricant is free of contaminants.*

For removal of heavier varnish deposits use 10%

1. Add one parts by volume of ArChine Cleantek ACL concentrate for each ten parts by volume of compressor oil normally used to fill the unit, first draining enough oil (1 part by volume) to allow the addition of the ArChine Cleantek ACL.
2. Operate the compressor for 40 to 60 hours, allowing the treated oil to dissolve, disperse and suspend the varnish. Carefully watch the filter restriction indicators in heavily varnished machines or where varnish has been allowed to harden over time and change filters if required.
3. Drain the oil while warm to avoid re-depositing any suspended contaminants.

Flushing with a small amount of new lubricant until the drained lubricant appears clear and free of particles is recommended. Fill machine with a sufficient amount of compressor lubricant to allow lubrication (usually about 10%) and run the machine until it turns 5 to 10 times and drain. Clean pipes, hoses, filter housing and the oil reservoir. Manually wipe or vacuum the interior of the oil reservoir to remove any insoluble materials that remain.

If there is still heavy varnish, repeat steps 1 to 3.

4. If all the used oil cannot be removed, or there is more than 5% remaining, then add new oil with ArChine Cleantek ACL and run about 30 minutes, drain completely.
5. Flushing with a small amount of new lubricant until the drained lubricant appears clear and free of particles is recommended.

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6. Inspect coalescing elements and replace if necessary
7. Replace filters, and Refill with new compressor lubricant. *If converting to a lubricant to be used in food processing applications, an additional flush with the new lubricant is recommended to ensure lubricant is free of contaminants.*

NOTE CONCERNING FILTERS AND FILTRATION: If the system is known to be heavily varnished, extra filters may be required to handle the quantity of varnish and other deposits expected to be removed from the compressor lubricant-coolant system. Be prepared to change the filters several times. Filters should be changed immediately before adding ArChine Cleantek ACL to prevent the cleaner from breaking up the material already in the filters and dispersing it back into the system. The filters also should be changed before adding the flushing oil and/or before adding the final fill.

If the deposits have been allowed to collect for too long in the compressor, they may have become hardened onto the surfaces. These types of deposits become harder to remove and sometimes are not removed by the procedure above. Longer operation with the cleaner may remove the hardened varnish. ArChine Cleantek ACL may also be used in combination with PRO COMPRESSOR CLEANER. If these procedure do not obtain the desired results a much stronger cleaning method may be required such as the use of harsh chemicals or possibly the teardown and mechanical cleaning of the parts. The regular use of ArChine Cleantek ACL prior to normal lubricant change intervals or the use of premium synthetic compressor lubricants can help to avoid these issues.

NOTE CONCERNING STORAGE: ArChine Cleantek ACL is a compounded additive. The pour point is 0°C (32°F) typically. If stored near or below the pour point the product may have to be warmed and re-mixed until clear before used. Normal shelf life is expected to be 2 years, after that time the product should be re-certified for use.

#### **Typical Properties for concentrated additive**

<b>Property</b>	<b>Method</b>	<b>Units</b>	
Viscosity	ASTM D445	cSt @ 40°C	16.3
Viscosity	ASTM D445	cSt @ 100°C	3.45
Viscosity Index	ASTM D2270		97
Density 20°C	ASTM D4052	g/ml pounds/gallon	0.983 8.19

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# ARCHINE

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Flash Point	ASTM D92	℃ (°F)	170 (338)
Flash Point	ASTM D92		186 (367)
Pour Point	ASTM D97	℃ (°F)	0 (32)
Total Acid Number	ASTM D-97	Mg KOH/ml	<0.1

*Information given herein is offered in good faith as accurate, but without guarantee. Due to widely varying conditions of product use and suitability are beyond our control, it is strongly recommended that the product be tested for suitability. All risks of use of the product are therefore assumed by the user and we expressly disclaim all warranties of every kind and nature, including warranties of merchantability and fitness for a particular purpose in respect to the use or suitability of the product. Nothing is intended as a recommendation for uses which infringe valid patents or as extending license under valid patents. Appropriate warnings and safe handling procedures should be provided to handlers and users.*

Typical Properties should not be considered specification

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