

## Archine Syngear PAG 460

For Compressors, Drivers, Gears, Anti-wear Hydraulics, Mobile Equipment, and Pumps

### Product Description

**Archine Syngear PAG 460** is an extreme-pressure lubricant. Formulated to provide excellent lubrication, stability, and extended service life, they eliminate many of the problems commonly encountered with petroleum lubricants. **Archine Syngear PAG 460** can provide a variety of cost savings to users.

### Product Features

Wide temperature range operability

- Highly resistant to oxidation and thermal degradation
- Excellent viscosity-temperature properties eliminate the need for seasonal changeover
- High viscosity indexes and low pour points provide lower start-up torques and help prevent cold-weather motor overloading
- Viscosities are unaffected by high rates of shear
- Excellent lubricity for reduced friction and wear
- Resistant to sludge and varnish formation
- Noncorrosive to metal surfaces—stain-resistant to nonferrous metals
- High flash points

### Benefits

- Reduced energy consumption. Use of **Archine Syngear PAG 460** lubricant has resulted in documented energy savings of three percent
- Extended service life. Under heavy-load, high-temperature conditions
- Less lubricant used, resulting in lower disposal costs
- Can help reduce maintenance costs
- Helps reduce wear rates
- Eliminates sludge and carbonaceous residues
- Extreme-pressure lubrication without use of chlorine- or sulfur-containing additives
- High viscosity index
  - Eliminates seasonal oil changeovers
  - Facilitates cold-weather start-ups
  - Eliminates motor overloading during start-up
- Product consolidation: fewer lubricants

### Typical Physical Properties

	Archine Syngear PAG
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## Distributor Wanted

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Shanghai PingYiao Trading CO., Ltd.

Tel: 86-21-64705533

Address: Xuhui District, Shanghai Caoxi Yin Hai Building, A1207 Room, No. 250

Telephone helpline: (86)15900706965

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Property	32	46	68	150	220	460	680
Viscosity, ISO Grade, cSt	32	46	68	150	220	460	680
Viscosity Index	160	170	174	193	212	220	235
Pour Point, °F	-54	-49	-44	-38	-27	-27	-27
Flash Point, °F Cleveland Open Cup	475	490	530	545	555	560	555
Weight per Gallon at 60°F, lb	8.24	8.28	8.31	8.36	8.37	8.38	8.41

The data represent typical physical properties only and should not be construed as product specifications

### Applications

EQUIPMENT	APPLICATION	Archine Syngear PAG						
		32	46	68	150	220	460	680
<b>Compressors</b>	Axial	√	√	√				
	Radial	√	√	√				
	Radial Integral Gear	√	√	√				
	Reciprocating Crosshead				√	√	√	√
	Reciprocating Diaphragm (Crankcase)				√	√	√	√
	Reciprocating Trunk (Crankcase)				√	√	√	√
	Rotary Liquid Ring Rotor	√	√	√				
	Rotary Lobe (Gears)	√	√	√	√	√	√	√
	Rotary Screw (Dry & Oil-Flooded)	√	√	√	√	√	√	√
	Rotary Vane (Rotor)	√	√	√	√	√	√	√
<b>Drivers</b>	Chain Drives	√	√	√	√	√	√	√
	Electric Motors (Fixed & Variable Speed)	√	√	√				
	Expansion Turbine	√	√	√				
	Fluid Drive Couplings	√	√	√				
	Gas Turbine	√	√	√				
	Generators	√	√	√				
	Hydraulic-Driven Turbine	√	√	√				
	Steam-Driven Turbine	√	√	√				
<b>Gears</b>	Gears of All Types	√	√	√	√	√	√	√
<b>Hydraulics</b>	Fluid Drive Couplings	√	√	√				

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	Hydraulic-Driven Turbine	√	√	√				
	Hydrodynamic Hydraulic Systems	√	√	√				
	Hydrostatic Drives	√	√	√				
<b>Mobile</b>	Cherry Pickers	√	√	√	√	√	√	√
	End Loaders	√	√	√	√	√	√	√
	Tractors	√	√	√	√	√	√	√
<b>Pumps</b>	Axial Piston	√	√	√	√	√	√	√
	Bent Axial Piston	√	√	√	√	√	√	√
	Centrifugal	√	√	√	√	√	√	√
	Diaphragm	√	√	√	√	√	√	√
	Double Diaphragm Fluid	√	√	√	√	√	√	√
	External Gear	√	√	√	√	√	√	√
	Internal Gear	√	√	√	√	√	√	√
	Liquid Ring	√	√	√	√	√	√	√
	Radial Piston	√	√	√	√	√	√	√
	Reciprocating	√	√	√	√	√	√	√
	Reciprocating Diaphragm	√	√	√	√	√	√	√
	Rotary Lobe	√	√	√	√	√	√	√
	Rotary Screw	√	√	√	√	√	√	√
	Rotary Vane	√	√	√	√	√	√	√
Triplex	√	√	√	√	√	√	√	
<b>Others</b>	Calenders	√	√	√	√	√	√	√
	Conveyors	√	√	√	√	√	√	√
	Crushers	√	√	√	√	√	√	√
	Grinders	√	√	√	√	√	√	√

### Selecting Archine Syngear PAG 460

#### AGMA Viscosity Grades

Because of the high viscosity index exhibited by **Archine Syngear PAG** (32-680 vs. 90-100 for most petroleum gear lubricants), they are not classified by one AGMA viscosity rating. **Archine Syngear PAG** lubricants will effectively span 2 or 3 AGMA petroleum lubricant grades over the operating range of most gear boxes. By knowing either the viscosity required at the operating temperature or the AGMA rating of the current lubricant, the appropriate performing **Archine Syngear PAG L** lubricant can easily be chosen.

#### Selection Guide for Archine Syngear PAG

Lubricant	AGMA Grades Usually Replaced
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Archine Syngear PAG 32	1
Archine Syngear PAG 46	1-2
Archine Syngear PAG 68	2-3
Archine Syngear PAG 150	3-6
Archine Syngear PAG 220	5-7
Archine Syngear PAG 460	6-8
Archine Syngear PAG 680	8-8A

### Converting to Archine Syngear PAG 460

Installation of **Archine Syngear PAG 460** lubricants into machinery that previously contained petroleum oils

should follow the recommended flush procedure below:

- Drain previous lubricant from the equipment.
- Replace oil filters.
- Fill the system with the **Archine Syngear PAG 460** lubricant to be used. Run or circulate under normal operating conditions for 24 hours. **Archine Syngear PAG 460** lubricants will generally clean varnish and sludge build-up formed from petroleum oils.
- Thoroughly drain the **Archine Syngear PAG 460** lubricant from the system while warm.
- Inspect the oil filters and replace as needed.
- Fill the equipment with fresh **Archine Syngear PAG 460** lubricant and begin normal operation.
- Inspect and change filters as required. This procedure should be followed for best results. Residual petroleum lubricant can usually be tolerated at low levels in the **Archine Syngear PAG 460** lubricant.

### Monitoring Archine Syngear PAG

Although **Archine Syngear PAG 460** lubricant will show a greatly extended service life under most conditions, one should not neglect to perform periodic maintenance and inspection, which will help ensure continued trouble-free operation.

### Paint, Elastomer, and Sealant Compatibility

**Archine Syngear PAG 460** lubricant show some solvency for common oil-based paints, but many epoxybased paints have been resistant. If, for example, interior surfaces of hydraulic system components have been painted, they should be carefully monitored for trends toward paint softening, lifting, and peeling. If paint removal does occur, frequent maintenance of filters may be required to avoid any equipment malfunctioning. **Archine Syngear PAG 460** lubricant is suitable for use with most elastomeric materials used in seals and gaskets. Below is a partial list of elastomers compatible with **Archine Syngear PAG 460** lubricant.

Viton    Kalrez    Silicone    Polysulfide    EPR    EPDM    Butyl Rubber    Buna

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# **ARCHINE**

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N (high nitrile)    Hycar    Fluoraz    Neoprene    Hypalon    Aflas

In selective tests, **Archine Syngear PAG** lubricants have been shown to be compatible with Silicone rubber 732 RTV and Loctite PST and 290 in direct lubricant contact, and in exposure to the sealants between bonded copper surfaces.

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