



Petrelplus<sup>®</sup>



**HYDRAULIC FLUID**

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Petrelplus®

## HYDRAULIC OIL

### HYDROPLUS AW SERIES

#### DESCRIPTION

**HYDROPLUS** Hydraulic AW Series are premium high-performance oils intended for industrial and service where anti-wear lubricants are required. The **HYDROPLUS** Hydraulic AW Series oils are designed to satisfy the performance requirements for a wide range of hydraulic components in systems subjected to high-pressure, high-temperature operating environments. Their high level of resistance to oxidation and good thermal stability characteristics helps reduce deposit formation and help prevent sluggish system operation. They provide good protection against rust and corrosion in high humidity operations or where low levels of moisture are unavoidable. They separate water readily and have very good air release properties. These products meet the performance requirements of a wide range of hydraulic system and component OEM's and are compatible with the pump and component metallurgy used by various manufacturers.

#### BENEFITS

- Advance anti wear performance.
- Better surface properties reduce oil carryover.
- Good liquid and vapour phase rust protection.
- Provider long stand equipment life extends filter life.

## HYDROPLUS AW SK SERIES

### DESCRIPTION

**HYDROPLUS AW SK** Series oils are premium quality anti-wear hydraulic oils intended for industrial and mobile service applications where anti-wear lubricants are required. They are formulated with high quality base oils and a select additive system that results in products that provide many desirable features to improve and prolong equipment life. **HYDROPLUS AW SK** Series oils are designed to provide good performance in a range of hydraulic components used in systems subjected to moderate to severe operating conditions. These products meet the performance requirements of a wide range of hydraulic system and component OEM's.

### APPLICATIONS

- Systems containing gears and bearings where mild anti-wear characteristics are required.
- Where small amounts of water are unavoidable and this water could damage components.
- Systems employing gear, vane, radial and axial piston pumps where anti-wear hydraulic oils are recommended.
- Applications where thin oil-film corrosion protection is an asset such as systems where small amounts of water exist.
- Hydraulic applications where contamination or leakages are unavoidable.

## HYDROPLUS HLP TYPE SERIES

### DESCRIPTION

**HYDROPLUS Hydraulic HLP** Series is premium high-performance oils intended for industrial and service where anti-wear lubricants are required. The **HYDROPLUS Hydraulic HLP** Series oils are designed to satisfy the performance requirements for a wide range of hydraulic components in systems subjected to high-pressure, high temperature operating environments. Their high level of resistance to oxidation and good thermal stability characteristics helps reduce deposit formation and help prevent sluggish system operation. They provide good protection against rust and corrosion in high humidity operations or where low levels of moisture are unavoidable. They separate water readily and have very good air release properties. These products meet the performance requirements of a wide range of hydraulic system and component OEM's and are compatible with the pump and component metallurgy used by various manufacturers.

## APPLICATIONS

- Advance anti wear performance.
- Better surface properties reduce oil carryover.
- Good liquid and vapour phase rust protection.
- Provides long stand equipment life extends filter life.

## HYDROPLUS SUPER CLEAN SERIES

### DESCRIPTION

**HYDROPLUS SUPER CLEAN** Hydraulic fluid 32, 46, 68 are specially formulated for use in hydraulic systems employing high performance pumps. They are specially filtered to minimize particle contamination to meet NAS 4 cleanliness levels of NAS 1638, which ensures trouble free function of servo valves. These products possess excellent oxidation, demulsibility characteristics & high FZG rating.

The products are further fortified with rust & foam inhibitors.

### APPLICATIONS

**HYDROPLUS SC 32,46,68** oils have good filterability & are formulated to meet Cincinnati Milacron P-69, DIN 51524 Part 3, Dennison HF-0, Dennison HF-3 specifications. Excellent film strength & anti-wear properties to minimize wear in pumps, rings, valves, pistons, cylinders etc. High demulsibility. Anti-foam properties ensure efficient Functioning. High Viscosity index to ensure excellent viscosity characteristics under operating conditions. **Hydro Plus SC** are recommended for use in hydraulic systems, high performance electro-hydraulic or numerically controlled systems, pumps and circulation oiling systems and enclosed gear boxes.







## HYDROPLUS VG 10

HYDRO PLUS VG 10 is a premium grade, mild anti-wear hydraulic oil specifically formulated without zinc additives. The absence of zinc makes HYDRO PLUS VG 10 suitable for hydraulic systems using Lucas Pumps which incorporate silver plated slipper pads, or in applications specifying ash less hydraulic oils. HYDRO PLUS VG 10 is an extra light oil principally used as a hydraulic fluid in telemotor control systems. It is also suitable as spindle oil for high-speed spindles. HYDRO PLUS VG 10 is designed for use in hydraulic systems incorporating Lucas Pumps but will perform well in other pumps (except the highly rated vane types, such as the Vickers Detroit V105C Models).

### APPLICATIONS

- Excellent wear protection giving long equipment life.
- Superior oxidation resistance and filterability ensure long oil life and lower oil cost.
- Good filterability, even with water contamination, ensures protection against oxidation and fouling of servo valves.
- Low viscosity and good air release properties prevent jerky movement of hydraulic systems

## PNEUMATIC PLUS

PNEUMATIC PLUS is specially formulated for use in hydraulic systems employing high performance pumps. They are specially filtered to minimize particle contamination to meet NAS 4 cleanliness levels of NAS 1638, which ensures trouble free function of servo valves. These products possess excellent oxidation, demulsibility characteristics & high FZG rating. The products are further fortified with rust & foam inhibitors.

## APPLICATIONS

**PNEUMATIC PLUS** oils have good filterability & are formulated to meet Cincinnati Milacron P-69, DIN 51524 Part 2, Dennison HF-0, Dennison HF-2 specifications. Excellent film strength & anti-wear properties to minimize wear in pumps, rings, valves, pistons, cylinders etc. High demulsibility. Anti-foam properties ensure efficient functioning. High Viscosity index to ensure excellent viscosity characteristics under operating conditions. **PNEUMATIC PLUS** oils are recommended for use in hydraulic systems, high performance electro-hydraulic or numerically controlled systems, pumps & circulation oiling systems & enclosed gear boxes.

## SYF-3930 ESTER BASED BIODEGRADABLE HYDRAULIC OIL

SYF-3930 is an ester base **BIODEGRADABLE ZINC FREE HYDRAULIC OIL** which has been specifically formulated with biodegradable Ester base stocks having unusually high temperature lubricating capability. Careful selection of additives results in a fluid which resists high temperature decomposition and prevents the formation of sludge or carbon normally produced by petroleum based products. This results in longer equipment life, less maintenance, better efficiency, while costly downtime is significantly reduced. SYF-3930 oils have a high fire resistance and therefore reduce the possibility to become inflamed by potential fire sources, proven in the **FACTORY MUTUAL STANDARD** Spray-Flame Test. SYF-3930 oils are miscible with mineral oil and therefore best suited for the re-oiling of equipment under observation of the conversion guidelines.

## APPLICATIONS

SYF-3930 is primarily recommended for severe service or extreme temperature applications. These include hydraulic systems - ice machines, air compressors - turbines and circulating systems. SYF-3930 will also provide extra-long service life in any general-purpose system where R & O anti-wear type lubricants are required. The oil drain interval has been extended from the normal 6 months, to over one year. Wear has proven to be extremely low and operating temperatures have been greatly reduced.

SYF-3930 oils are multi-purpose hydraulic fluids with a large working temperature range, high viscosity index and good lubricating properties. They can be applied in mobile and working hydraulic systems, hydraulic travelling mechanism and control hydraulic systems, where the risk of entering the environment exists, also as HDFU-fluids in hydraulic systems where due to the presence of high-temperature materials there is a potential fire risk. The range of application is substantially bigger than that of vegetable-oil-based lubricants.

## **SYF 930 SYNTHETIC HYDRAULIC FLUID (PAO)**

This PAO base SYF-930 Fluids are lubricants for hydraulic systems, vacuum pumps, motors, circulating systems, and general plant utility where extreme temperatures or severe applications require the performance characteristics of synthetic oils.

SYF-930 fluids are formulated with 100% synthetic base stocks compounded with anti-rust, anti-wear, and anti-oxidant additive systems.

Natural resistance to carbon and varnish formations provides for equipment operation with minimum deposits from thermal stresses.

### **APPLICATIONS**

SYF-930 is primarily recommended for severe service or extreme temperature applications. These include hydraulic systems - ice machines, air compressors - turbines and circulating systems. SYF-930 will also provide extra-long service life in any general-purpose system where R & O anti-wear type lubricants are required.



## **SYF-975 SYNTHETIC FIRE RESISTANT HYDRAULIC FLUID**

SYF-975 is a synthetic fire-resistant hydraulic fluid. It is used as replacement for mineral oil fluids is recommended whenever a major fire hazard exists associated with industrial systems.

### **APPLICATIONS**

SYF-975 is primarily recommended in die casting machines, hydraulic forging presses and hammers, machines and drive systems in the mining industry and robot welding machines. SYF-975 fluids possess a very high oxidation resistance and are able to resist for a long term thermic-oxidative conditions, without suffering major degradation. The joint action of metals, water and pollutant can accelerate the oxygen attack at high temperature, therefore, in order to get the best performances of the in-service fluid, it is advisable to maintain its cleanliness and reduce water contamination.



# SYNTHDROL SYNTHETIC HYDRAULIC FLUID

Synthetic Hydraulic Fluid is designed with ash less technology to give maximum protection and improve productivity and fuel efficiency in both mobile and stationary hydraulic equipment in industrial applications. These are high viscosity index fluids that provide a wide operating temperature range. SYNTHDROL are lubricants for hydraulic systems, vacuum pumps, motors, circulating systems and general plant utility where extreme temperatures or severe applications require the performance characteristics of synthetic oils. SYNTHDROL fluids are formulated with synthetic base stocks compounded with anti-rust, anti-wear, and anti-oxidant additive systems. Natural resistance to carbon and varnish formations provides for equipment operation with minimum deposits from thermal stresses.

## APPLICATIONS

SYNTHDROL is primarily recommended for severe service or extreme temperature applications. These include hydraulic systems - ice machines, air compressors - turbines and circulating systems. Synthdrol will also provide extra-long service life in any general-purpose system where R & O anti-wear type lubricants are required. SYNTHDROL are designed to give maximum protection to both mobile and stationary hydraulic pumps in high-performance industrial applications as well as in environmentally sensitive areas.



**AVAILABLE GRADE IN VG**

**10, 12, 32, 46, 68, 100, 150 & 220**



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**PETRELPLUS INC.**

**ONE WORLD CENTER, TOWER ONE, 9TH FLOOR, SENAPATI BAPAT MARG, LOWER  
PAREL, MUMBAI - 400013**



**9352225457, 9509825457, 7410833103**



**[www.petrelplus.com](http://www.petrelplus.com)**



**[info@petrelplus.com](mailto:info@petrelplus.com)**

**WWW.PETRELPLUS.COM**