



**OUR BUSINESS IS HEAVY DUTY LUBRICANTS**

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## PRODUCT SPECIFICATIONS & TECHNICAL DATA

### ANTI-WEAR HYDRAULIC OILS-5000

**PETROFLO BRAND ANTI-WEAR HYDRAULIC OILS** are formulated using the highest quality, virgin mid-continent base stock. Specially refined for hydraulic application, they are extremely stable. The blended base oils are then treated with select, anti-wear additives containing Zinc Dithiophosphate, in addition to anti-rust, anti-oxidation, anti-foam and other additives that are listed below. Every **PETROFLO BRAND ANTI-WEAR HYDRAULIC OIL** manufactured is carefully compounded to very rigid quality control standards to provide your hydraulic machinery with the best possible protection.

#### MEETS OR EXCEEDS SPECIFICATION REQUIREMENT OF:

- American Motors
- API MT-1 (80W90)
- BMW
- Chrysler Corporation
- Clark Equipment Company
- Dodge
- Eaton
- Euclid
- Ford Motor Company
- General Motors
- John Deere Company
- Mack Truck GO-J
- Volkswagen
- MIL-PRF-2105E
- Navistar
- Nissan
- Renault
- Rockwell International
- Volkswagen

#### PROPERTIES AND BENEFITS:

**ANTI-WEAR ADDITIVES:** The special use of anti-wear agents containing Zinc Dithiophosphate plate and protect close tolerance hydraulic pumps and other hydraulic components against wear, scoring and seizing due to severe friction, heat and pressure stresses. Reduce vane pump wear as much as 98% over conventional hydraulic oils.

**HIGH VISCOSITY INDEX:** Maintains more uniform viscosity control of hydraulic oil medium with fluctuating temperature changes in the hydraulic system promoting a more stable transmission of hydraulic power, and smoother functioning of hydraulic controls. Minimizes loss of oil past seals and other clearances, due to its exceptional resistance to thinning under heat.

**OXIDATION RESISTANCE:** The addition of special oxidation inhibitors enables **PETROFLO BRAND ANTI WEAR HYDRAULIC OILS** to withstand the formation of acids, gums, sludge, varnish, and other harmful products of oxidation, thereby prolonging the life of the hydraulic oil and keeping the hydraulic system clean and functioning efficiently.

#### **RUST PREVENTATIVE AND ANTI-CORROSIVE AGENTS**

These special protective agents coat the highly polished parts of the hydraulic system against the harmful effects of rust and corrosion caused by water, acids and other contributing substances that act as catalysts.

**EXTREME PRESSURE AGENTS:** The important value of these agents impart greater film strength to **PETROFLO BRAND ANTI-WEAR HYDRAULIC OILS**, enabling them to withstand greater shock loads from unusual surges of pressure, thereby prolonging the life of critical hydraulic components.

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**ANTI-FOAM AGENTS:** These agents are designed to eliminate foam due to air becoming entrained in system thereby avoiding pump cavitations an erratic hydraulic performance.

**DEMULSIBILITY ADDITIVES:** Promote the rapid separation of water from hydraulic oil, causing the water to settle on tank bottom for easy drainage. Prevent formation of harmful emulsions and slimy deposits. Prolongs life of oil and insure superior maintenance of equipment.

**SUPERIOR LUBRICITY AND HIGH FILM STRENGTH:** Special oiliness qualities promotes more efficient fluid power by lowering the coefficient of friction.

**SEAL CONDITIONER:** Maintains elasticity of seals thereby controlling oil leaks and minimizing loss of hydraulic pressure.

**APPLICATIONS:**

**PETROFLO BRAND ANTI-WEAR HYDRAULIC OILS** are used in hydraulic systems ranging from moderate to severe high pressure operating conditions. They are found in injection molding machinery, plastic processing equipment, compacting and bailing machines, fork lift trucks, metal working machine tools, construction equipment, sanitation vehicles, hydraulic elevators and other specially designed hydraulic power equipment.

**TYPICAL ANALYSIS**

ISO GRADE	<b>32</b>	<b>46</b>	<b>68</b>
API GRAVITY	30.4	28.4	27.5
<b>VISCOSITY:</b>			
SUS @ 100 F	165	238	340
SUS @ 210 F	44	49	55.0
cSt @ 40 °C	32	46	68
cSt @ 100 °C	5.3	6.7	8.5
VISCOSITY INDEX	105	105	105
FLASH COC F	395	395	400
POUR POINT	-35	-20	-17
ANTI-WEAR PROPERTIES ZDP	SUPERIOR	SUPERIOR	SUPERIOR
OXIDATION ENDURANE HRS	5000 +	5000 +	5000 +
RUST & CORROSION	NO RUST	NO RUST	NO RUST
DEMULSIBILITY	RAPID	RAPID	RAPID
ANTI-FOAM ACTION	EXCELLENT	EXCELLENT	EXCELLENT
EXTREME PRESSURE 4 BALL TEST	SUPERIOR	SUPERIOR	SUPERIOR
ZINC PPM	833	833	833

The above analyses are typical inspections only and the finished product may vary from batch to batch.