



## PERFORMANCE PLUS OILS AND LUBRICANTS

PERFORMANCE UNDER THE MOST EXTREME CONDITIONS



AUTOMOTIVE ENGINE | AUTOMOTIVE DRIVELINE | HEAVY DUTY ENGINE | HEAVY DUTY DRIVELINE | HYDRAULIC | GEAR OILS | GREASES | INDUSTRIAL LUBRICANTS | ANTIFREEZE

## ZINC FREE ANTI-WEAR HYDRAULIC OIL

**Performance Plus® Zinc Free Anti-Wear Hydraulic Oil** is formulated with an ashless chemistry to minimize wear in high speed, high-pressure vane, gear, and piston pumps. Performance Plus® Zinc Free Anti-Wear Hydraulic Oil has been proven and tested to control sludge and deposits and protect against oxidation and corrosion. Additionally this premium product is designed to meet the stringent hydraulic demands of the construction, industrial, mining, logging and agriculture industries, built on the foundation of our highly refined, hydro-treated, high VI base oils. This zinc free formulation is suitable for use where water course or aquifer sensitivity exists or where legislation requires the use of ashless hydraulic oils.

### PERFORMANCE PLUS PROPERTIES

ISO Viscosity Grade	46
Kinematic Viscosity cSt @ 40°C cSt @ 100°C	43.7 7.0
Viscosity Index	119
Oxidation Stability, hrs.	3,000
Copper Corrosion	1A
Demulsibility	Pass
Rust Characteristics, A&B	Pass
Specific Gravity 15.6°C (60°F)	0.854
Dielectric Strength (avg kV) <sup>1</sup>	>35
Flash Point, °C (°F)	240 (464)
Pour Point, °C (°F)	-30 (-22)
Color (ASTM)	L 1.5

Note: Values shown above are representative of current production and may vary within modest ranges

<sup>1</sup>Dielectric strength is tested as an average value of several test runs as measuring kV is not precise and results can vary. This value **only** applies to the point of manufacture at our facility and **does not** apply to bulk delivery. The product will lose if dielectric strength greatly when exposed to contamination. Always refer to your equipment owner's manual to properly manage.

### Approvals and Specifications

Performance Plus® Zinc Free Anti-Wear Hydraulic Oils are suitable for use in the following specifications:

Eaton-Vickers 35VQ25	Parker Hannifin HF-0
DIN 51524 Part 2	Parker Hannifin HF-1
ASTM D6158	Parker Hannifin HF-2
Ford M6C32	General Motors LS2
Fives P-70	ISO 11158 HM
ISO 20763 vane pump test	

Since Performance Plus Zinc Free Anti-Wear Hydraulic Oils meet the latest stringent requirements of leading automobile manufacturers, they are suitable for the following OEMs (where applicable\*):

Caterpillar	Case IH
John Deere	Volvo
New Holland	Mahindra
Komatsu	Terex
Liebherr	Hitachi
Mazak	Toyota
Okuma	Haas
Doosan	Mitsubishi
Mag	Mori Seiki

\*Information regarding recommended maintenance and equipment operating conditions can be found by referencing Original Equipment Manufacturer's (OEM) owner's manual and recommended lubricant grades.

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## ZINC FREE ANTI-WEAR HYDRAULIC OIL

**Features and Benefits:** Performance Plus Zinc Free Anti-Wear Hydraulic Oil delivers the power, protection and performance demanded by today's hydraulic systems. Tested, proven, and trusted quality are why those demanding the best, turn to Performance Plus. In addition to power, performance and protection, Performance Plus Zinc Free Anti-Wear Extended Hydraulic Oil offers:

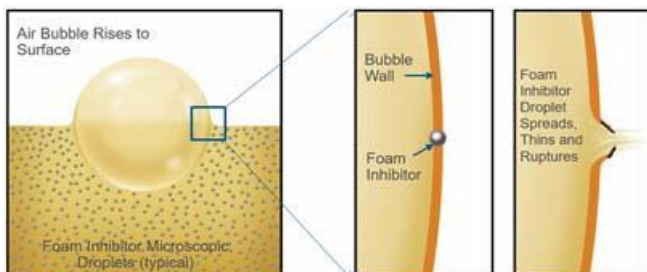
- Superior anti-wear properties
- Leading yellow metals compatibility
- Excellent cleanliness properties
- Rejects water with demulsifier additives
- Enhanced high temperature stability

- Reduces maintenance costs and downtime
- Eliminates component staining and damage
- Reduces maintenance downtime and filter changes
- Protects the system from corrosion
- Performs under extreme conditions

**Proven and Trusted:** The foundation of all Performance Plus products is the tested, proven and trusted base oil which exceeds the performance of many of the major oil refiners. Our finished lubricants start at a higher level than the competition due to our formulated blend of high quality base oils and additives.

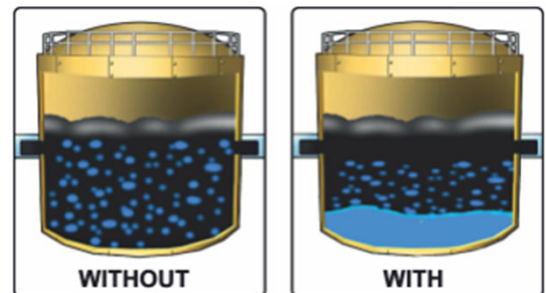
### Foam Control

Performance Plus® Zinc Free Anti-Wear Hydraulic Oils contain a specialty blend of additives that enhance surface tension and maintain film strength which provides excellent resistance to foaming. The strength of the additive package will break down foaming air bubbles as quickly as they form.



### Water Control

Performance Plus® Zinc Free Anti-Wear Hydraulic Oil is formulated with specialty demulsifying additives, which enhance the oils' ability to manage water contamination.



Our blend of additives will force any water contamination to the system to settle to the bottom of the sump so it can be easily drained off to protect the system.

**Health and Safety:** Information detailing health and safety can be found in the corresponding Safety Data Sheet on the Performance Plus website. Performance Plus products contain petroleum distillates and are not likely to pose any significant health or safety hazards. Gloves should be used to avoid any contact - should there be contact with skin, washing with soap and water is advised. If ingested, call a poison center or doctor - do not induce vomiting.

**Storage:** Performance Plus products should not be stored where the temperatures are above 140° F (60° C) or near sparks and flames. Products should be stored under cover and away from the reach of children. In case where drums cannot be under cover, they should be laid horizontally to avoid any potential contaminants.

**Disposal:** All efforts should be made to protect the environment. Please properly dispose of used motor oil and lubricants. Should you need any assistance please contact your sales representative for information on how Safety-Kleen's used motor oil collection services.

For additional questions, please contact your Performance Plus® Products Sales Representative.

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