



**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

## ANTI-WEAR HYDRAULIC OILS

**Performance Plus® Anti-Wear Hydraulic Oils** contain a zinc/phosphorous additive to minimize wear in high speed, high-pressure vane, gear, and piston pumps. Performance Plus® Anti-Wear Hydraulic Oils have been proven and tested to control sludge and deposits, protect against oxidation and corrosion. Additionally, these non-conductive, premium products are 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 KLEEN+ base oils.

### PERFORMANCE PLUS PROPERTIES

ISO Viscosity Grade	22	100
Kinematic Viscosity cSt @ 40°C	22.8	96.3
cSt @ 100°C	4.6	11.7
Viscosity Index	119	111
Oxidation Stability, hrs.	4,500	2,000
Copper Corrosion	1b	1b
Demulsibility	Pass	Pass
Rust Characteristics, A&B	Pass	Pass
Specific Gravity 15.6°C (60°F)	0.845	0.868
Dielectric Strength (avg KV) <sup>1</sup>	>35	>35
Flash Point, °C (°F)	212 (414)	244 (471)
Pour Point, °C (°F)	-42 (-44)	-18 (0)
Color (ASTM)	L 1.5	L 3.5

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® Anti-Wear Hydraulic Oils have been formerly approved to meet or are suitable for use\* in the following specifications:

Eaton-Vickers 35VQ25A	Parker Hannifin HF-0
Eaton-Vickers M-2950-S	Parker Hannifin HF-1
Eaton-Vickers I-286-S	Parker Hannifin HF-2
Ford M6C32	General Motors LS2
DIN 51524 Part 1*	ASTM D6158*
DIN 51524 Part 2*	ISO 11158*
US Steel 136*	

Since Performance Plus Anti-Wear Hydraulic Oils meet and can exceed the latest stringent OEM requirements, they are also suitable for use in the following brands where the above specifications are called for:

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

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

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## ANTI-WEAR HYDRAULIC OILS

**Features and Benefits:** Power, protection and performance are demanded in today's stringent hydraulic systems, and those who require the best turn to Performance Plus Anti-Wear Hydraulic Oils. Performance Plus is trusted, proven and tested by industry leading OEMs to deliver the highest quality. In addition, Performance Plus Anti-Wear Hydraulic Oils offer:

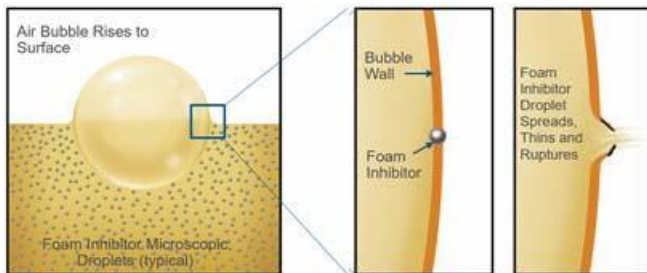
- Excellent cleanliness properties
- Rejects water with demulsifier additives
- Leading yellow metals compatibility
- Enhanced high temperature stability
- Superior anti-wear properties

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

**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.

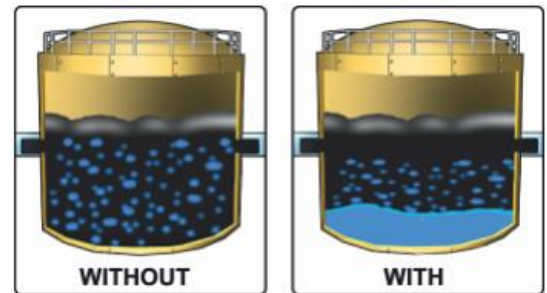
### Foam Control

Performance Plus® 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® Anti-Wear Extended Hydraulic Oils are formulated with specialty demulsifying additives, these 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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