



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 EXTENDED HYDRAULIC OILS

Performance Plus® Anti-Wear Extended Hydraulic Oils contain a zinc/phosphorous additive to minimize wear in high speed, high-pressure vane, gear, and piston pumps. They are uniquely formulated and highly engineered to achieve industry leading time between drain intervals through enhanced oxidation stability, sludge and deposit control and corrosion protection. Performance Plus® Anti-Wear Extended Hydraulic Oils have been proven and tested to extend intervals between drains versus the leading competitors. 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	32	46	68
Kinematic Viscosity cSt @ 40°C cSt @ 100°C	32.7	44.0	64.3
	5.8	7.2	9.0
Viscosity Index	122	121	116
Oxidation Stability, hrs.	6,500	6,500	5,500
Copper Corrosion	1b	1b	1b
Demulsibility	Pass	Pass	Pass
Rust Characteristics, A&B	Pass	Pass	Pass
Specific Gravity 15.6°C (60°F)	0.849	0.853	0.861
Dielectric Strength (avg KV) ¹	>35	>35	>35
Flash Point, °C (°F)	236 (457)	248 (478)	250 (482)
Pour Point, °C (°F)	-36 (-33)	-33 (-27)	-33 (-27)
Color (ASTM)	L 1.5	L 2.0	L 3.0

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

¹Dielectric 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 or water. Always refer to your equipment owner's manual to properly manage.

Approvals and Specifications

Performance Plus® Anti-Wear Extended Hydraulic Oils have been formally approved to meet or are suitable for use* in the following specifications:

Eaton / Danfoss E-FDGN-TB002-E (brochure 03-401-2010 Rev 1)	
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 Extended 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
Case IH	Mahindra
New Holland	Kubota
Komatsu	Terex
Liebherr	Hitachi
Mazak	Toyota
Okuma	Haas
Doosan	Mori Seiki

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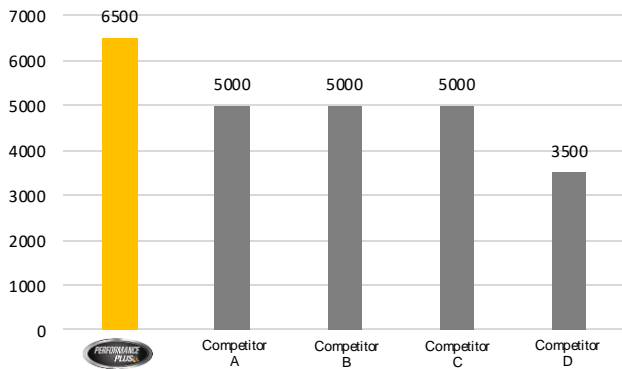
Features and Benefits: Performance Plus Anti-Wear Extended Hydraulic Oils deliver the power, protection and performance demanded by today's hydraulic systems. Tested, proven, and trusted quality are why those demanding the best, turn to Performance Plus. In addition to power, performance and protection,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

- Industry leading oxidation stability
- Formulated to maintain system cleanliness
- Enhanced with demulsifier additives
- Excellent thermal stability
- Superior anti-wear properties

- May extend drain intervals with oil analysis
- Extending filter life and reducing downtime
- Protects the system from water contamination and rust
- Maintains performance at high and low temperatures
- Reducing maintenance downtime and mechanical failures

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.

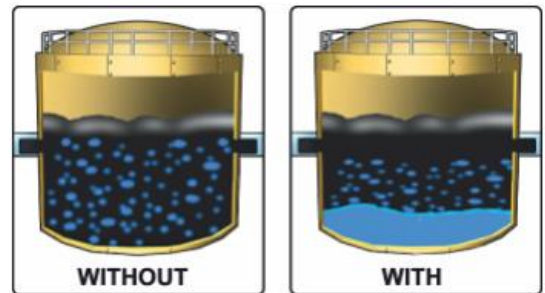
Oxidation Stability



Performance Plus® Anti-Wear Extended Hydraulic Oils deliver performance that extends well beyond all other competitors in the industry, achieving 6,500 hours of oxidation stability which can extend your time between change intervals by at least 1,500 hours!

Water Control

Performance Plus® Anti-Wear Extended Hydraulic Oils is formulated with specialty demulsifying additives, these enhance the oils' ability to manage oil contamination.



Our blend of additives will force any water contamination in 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 - do not have 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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