



**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

## LOW TEMP ANTI-WEAR HYDRAULIC OIL

**Performance Plus® Low Temp Anti-Wear Hydraulic Oils** contain a zinc/phosphorous additive to minimize wear in high speed, high-pressure vane, gear, and piston pumps over a wide operating temperature range. Performance Plus® Low Temp Anti-Wear Hydraulic Oils have been proven and tested to control sludge and deposits, protect against oxidation and corrosion, and are recommended for hydraulic systems encountering low temperature start-ups. Additionally, these non-conductive, premium products contain a shear stable viscosity index improver and anti-wear additive system 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 – they are formulated for protection and performance.

### PERFORMANCE PLUS PROPERTIES

ISO Viscosity Grade	22	32	46
Kinematic Viscosity cSt @ 40°C	20.8	32.2	45.9
	4.9	6.9	9.7
Viscosity Index	174	181	204
Brookfield Viscosity cP@ -10°C	-	-	<1000
	-	<1000	-
	<1000	-	-
Copper Corrosion	1b	1b	1b
Demulsibility	Pass	Pass	Pass
Rust Characteristics, A&B	Pass	Pass	Pass
Specific Gravity 15.6°C (60°F)	0.851	0.848	0.851
Dielectric Strength (avg KV) <sup>1</sup>	>35	>35	>35
Flash Point, °C (°F)	200 (392)	220 (428)	228 (442)
Pour Point, °C (°F)	-51 (-60)	-51 (-60)	-48 (-54)
Color (ASTM)	L 1.0	L 1.5	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 its dielectric strength greatly when exposed to contamination or water. Always refer to your equipment owner's manual to properly manage.

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

### Approvals and Specifications

Performance Plus® Low Temp Anti-Wear Hydraulic Oils are suitable for use, meet and can exceed the stringent requirements of the following:

Eaton-Vickers 35VQ25A	Parker Hannifin HF-0
Eaton-Vickers M2950-S	Parker Hannifin HF-1
Eaton-Vickers I-286-S	Parker Hannifin HF-2
Fives P-68	ASTM D6158
Fives P-69	ISO 11158
Fives P-70	DIN 51524-3 HVLP
	DIN 51524-2 HLP

Since Performance Plus Low Temp 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	Case IH
John Deere	Volvo
New Holland	Mahindra
Komatsu	Terex
Liebherr	Hitachi
Mazak	Toyota
Okuma	Haas
Doosan	Mitsubishi
Mag	Mori Seiki



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## LOW TEMP ANTI-WEAR HYDRAULIC OIL

**Features and Benefits:** Performance Plus Low Temp Anti-Wear Hydraulic Oils deliver the protection and performance in extreme environments 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 Low Temp Anti-Wear Hydraulic Oils offer:

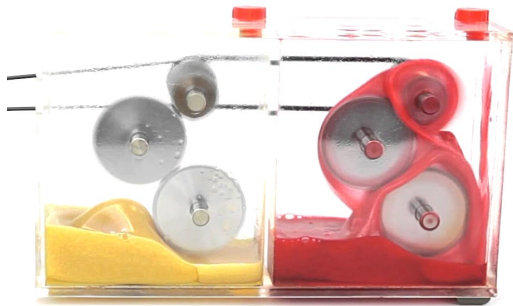
- Exceptional low temperature properties
- Protects components against wear
- Compatible with yellow metal components
- Formulated with additives to improve cleanliness
- Contains demulsifiers to reject water

- Performs in extreme environments
- Extending machine life and uptime
- Protects against staining and damage
- Exceptional protection between drain intervals
- Protecting against rust and undue damage

**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.

### Low Temperature Performance

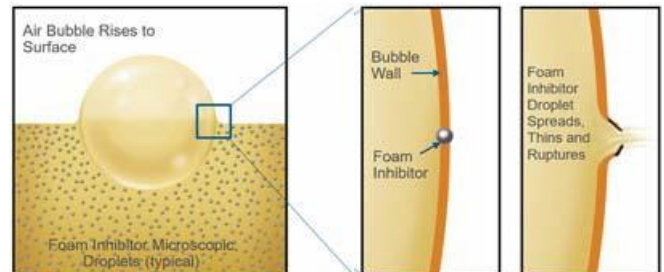
Performance Plus® Low Temp Anti-Wear Hydraulic Oils is formulated for performance at low temperatures.



Competitive products thicken at low temperatures and do not properly flow. Performance Plus maintains its viscosity and protects critical components during low temperature start up.

### Foam Control

Performance Plus® Low Temp 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.



**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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