



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

PERFORMANCE PLUS TO-4 FLUIDS (CATERPILLAR)

Performance Plus® TO-4 Fluids are premium quality transmission, final drive and hydraulic oils formulated using enhanced performance additives and high-quality base oils. This proprietary formula is engineered to meet or exceed the specific frictional characteristics of the latest Caterpillar and Allison Powershift Transmissions. Due to their advanced protection, they extend equipment life, minimize downtime, and provide optimal operation performance. Performance and Protection are the foundation of all Performance Plus products which is why they are trusted by those who demand quality lubricants and fluids for their equipment.

PERFORMANCE PLUS PROPERTIES				
SAE Viscosity Grade	10	30	50	
Kinematic Viscosity	cSt @ 40°C	29.3	86.6	224.8
	cSt @ 100°C	5.3	10.1	19.2
Viscosity Index	115	97	97	
Brookfield Viscosity	cP @ -35°C	20,000	-	-
	cP @ -25°C	-	38,000	-
	cP @ -15°C	-	-	35,000
	TBN	7.8	7.8	7.8
Specific Gravity 15.6°C (60°F)	0.859	0.877	0.889	
Flash Point, °C (°F)	211 (414)	233 (451)	261 (502)	
Color (ASTM)	2.5	3.0	4.0	

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

Approvals and Specifications

Performance Plus TO-4 Fluids are suitable for use in the following specifications:

Caterpillar TO-4	Allison C-4
Caterpillar TO-2	Allison C-3

Since Performance Plus TO-4 Fluids meet the latest stringent requirements of leading automobile manufacturers, they are suitable for the following OEMs (where applicable*):

Caterpillar	Eaton / Vickers
John Deere	Volvo
Komatsu	Terex
Hitachi	Toyota
Doosan	Mitsubishi
Case IH	Kubota
International Harvester	BASF
Renault	Mahindra
Kioti	New Holland

*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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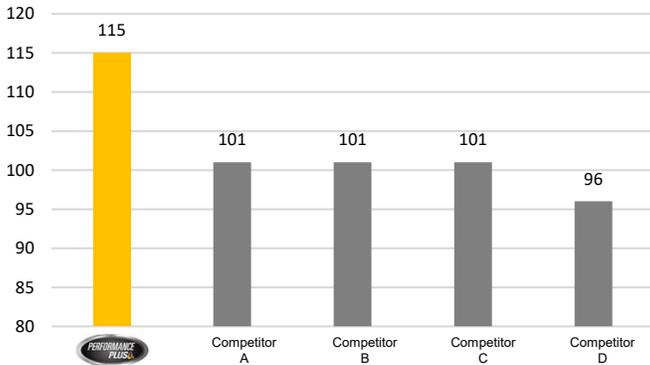
Features and Benefits: Today's heavy-duty off-road equipment's transmissions, final drives, and hydraulic systems require lubricants that can provide excellent wear protection, extend equipment life, and advanced performance under extreme conditions. Tested, proven, and trusted: Performance Plus TO-4 Fluids are designed to surpass expectations and their quality is why those demanding the best turn to Performance Plus. In addition to performance and protection, Performance Plus TO-4 Fluids offer:

Superior friction reduction properties
Excellent shear stability to stay in grade
Formulated with extreme pressure additives
Provides protection against sludge and deposits
Optimal low-temperature start-up operations

Eliminates excessive brake vibration and clutch slippage
Providing protection under periods of high torque
Preventing gear scuffing and scoring
Maximizing performance, power and protection
Protecting against wear under critical 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.

Viscosity Index



Performance Plus® has a superior Viscosity Index, enhancing performance over a wider temperature range than the leading competitors, protecting engines from wear at extreme high and low temperature environments.

Wear and Temperature



The image on the left shows damage from wear, and the image on the right show the protection provided by Performance Plus.

The greatest amount of wear occurs at low temperature start-up, Performance Plus® is formulated to protect critical transmission components in these conditions to greatly extend the life of your transmission.

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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