Cat® DEAC™

Concentrate

Prevents Freezing While Providing Superior Component Protection

Cat® DEAC™ (Diesel Engine Antifreeze/Coolant) is a heavy-duty cooling system fluid designed to prevent freezing and boiling while providing superior component protection. Approved for use in all Cat machines, commercial engine and truck engine applications, as well as, in most diesel, gas, or natural gas engines made by other manufacturers (follow OEM recommendations).

Benefits

Performance
Cat DEAC protects the cooling system in your equipment over a temperature range of -34°F (-37°C) to 265°F (129°C) when used as a 50/50 percent mix with water (recommended). Additional freeze protection can be gained when the coolant concentration is raised to 60%.

Component Protection
Cat DEAC contains inhibitors that provide superior protection for metal components, especially aluminum, against pitting and corrosion. The formulation of Cat DEAC minimizes the formation of foam.

Convenience
Cat DEAC is a fully formulated and embittered concentrate that is ready to be mixed with water. No Supplemental Coolant Additive is needed until testing indicates.

CATERPILLAR®

Cat DEAC Provides Top Component Protection

Aluminum can be a very difficult metal to protect from corrosion and cavitation (boiling) damage. Cat DEAC is formulated to provide excellent protection for all metals used in cooling systems. In testing (ASTM D2809) with aluminum water pumps, Cat DEAC demonstrated its superior ability to protect compared to competitive heavy duty coolants.

Cat® DEAC™ protected this water pump and earned a nine out of ten on the test.

Results using a competitive heavy duty coolant that claimed to meet industry standards. The test score for this coolant was less than 4.

Typical Characteristics[1]	
ASTM Specification	ASTM D6210
Color	Magenta
Boiling protection – 15 psi (1 bar) radiator cap	
50% Cat DEAC/50% water	129°C (265°F)
60% Cat DEAC/40% water[2]	132°C (270°F)
Freeze protection	
50% Cat DEAC/50% water	-37°C (-34°F)
60% Cat DEAC/40% water[2]	-52°C (-62°F)
pH (50% solution)	10.5
Nitrite (50% solution)	1,200 ppm
Molybdate (50% solution)	310 ppm
Silicon (in the form of silicates) (50% solution)	120 ppm
Phosphate	0 ppm

[1]The values shown are typical values and should not be used as quality control parameters to either accept or reject product. Specifications are subject to change without notice.

[2]Higher levels of glycol reduces the heat transfer performance of the coolant. For optimum performance, Caterpillar recommends a 50/50 percent mix of Cat DEAC and water, unless additional freeze protection is required.

Formulated to meet or exceed the following ASTM standards: D3306, D4985, D6210, TMC RP302, TMC RP329

Drain Interval

When used in Cat diesel engines and equipment and when properly maintained with Cat SCA, Cat DEAC has a drain interval of whichever comes first:

- 3,000 service hours
- 3 years
- 200,000 miles (321,869 kilometers)

S•O•S℠ Fluid Analysis Services for Early Problem Detection

Protect your investment with Cat S•O•S Coolant Analysis, the ultimate detection and diagnostic tool for your engines. Refer to the Caterpillar Operation and Maintenance Manual for the recommended intervals of S•O•S Level 1 Coolant Analysis (such as every 250 hours). Level 2 Coolant Analysis is recommended at least annually for all Caterpillar engines and machines.

Testing Nitrite Levels

Field testing of coolant nitrite levels can be performed using the 4C-9301 test kit. Results are immediate and SCA additions can be made as needed.

Coolant Maintenance Resources

For in-depth information on coolant maintenance, refer to the Cooling System Specifications section of the latest version of SEBU6250 – Caterpillar Machine Fluids Recommendations or SEBU6251 – Caterpillar Commercial Diesel Engine Fluids Recommendations.

Health and Safety

For information on proper use for health, safety, and environment, please refer to the Material Safety Data Sheet (MSDS). Read and understand the MSDS before using this product. Always observe good hygiene measures. For a copy of the MSDS, contact us or visit the web at www.catmsds.com.

CAT® DEALERS DEFINE WORLD-CLASS PRODUCT SUPPORT.

We offer you the right parts and service solutions, when and where you need them.

The Cat Dealer network of highly trained experts keeps your entire fleet up and running to maximize your equipment investment.

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