

CAT® EXTENDED LIFE COOLANT (ELC) ADVANCED

PROTECT YOUR INVESTMENT WITH ADVANCED COOLING TECHNOLOGY

PROACTIVE MAINTENANCE MATTERS

Proactive maintenance is essential to avoid costly issues with coolant systems. This extended-life coolant, enhanced with nitrite technology, features patented aluminum protection that reduces cavitation while being compatible with the aluminum used in today's radiators. ELC Advanced coolant technology is designed to address these specific challenges.



BENEFITS

+ BUILT-IN ALUMINUM PROTECTION
Cat® ELC Advanced is the latest innovation in coolant technology, specifically formulated to replace the previous DEAC and NGEC formulations. It offers enhanced protection and performance for modern engine cooling systems, providing essential safeguards against adverse aluminum reactions. This helps prevent costly engine damage and unplanned downtime, allowing your equipment to run smoothly.

+ LOWER YOUR OPERATING COSTS
Cat ELC Advanced does not require supplemental coolant additives at initial fill and, in well-maintained systems, may reduce the need for ongoing additive additions compared to DEAC and NGEC formulations. Its longer service life means fewer coolant changes and less coolant to dispose of over the life of the equipment. Together, these factors help simplify maintenance, saving both time and money.

+ EXTENDED SERVICE INTERVALS
Enjoy a remarkable 20,000-hour/six-year drain interval, with the possibility of extended drain intervals past that, by following OMM maintenance recommendations and completing regular fluid analysis.

+ ENHANCE ENGINE LONGEVITY
Our advanced technology helps keep your cooling system components from rust, corrosion, and pitting, even in high-temperature conditions. With no gel or deposit formation, you can maintain improved cooling system operation and prevent overheating.

+ SIMPLIFY MIXED-FLEET MAINTENANCE
Cat ELC Advanced is compatible with diesel and gas engines, offering an important benefit over the previous DEAC and NGEC products. It works with various equipment types and brands, including Cat and non Cat engines in different applications. This versatility reduces the number of coolants you need to manage, streamlining your maintenance efforts.

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REAL-WORLD IMPACT

Neglecting your coolant system can lead to deposits forming in the radiator, causing overheating and about a 5% loss in performance. This could escalate to costly repairs and lost productivity due to unexpected downtime if not addressed. Protect your equipment and your bottom line with Cat ELC Advanced.

WHEN COOLANT COSTS ARE HEATING UP…			
Radiator Replacement	Engine Overheating	Cracked Heads	Engine Overhaul
Approximately $1,500-$3,000 U.S.	5% Decreased Performance	Approximately $2,000 U.S. per head	Tens of Thousands of U.S. Dollars
UNPLANNED DOWNTIME: 100 HOURS			

*This chart represents an example scenario where the numbers are derived from aggregated data across various product lines, reflecting actual product and repair costs.

FLUID ANALYSIS: ENHANCE EQUIPMENT HEALTH

Routine fluid analysis can help improve the health of your equipment. With Cat S•O•S℠ Fluid Analysis, you can save on your owning and operating costs. This routine check-up delivers valuable insights to prevent unexpected failures and unplanned downtime. You provide the sample, and our fluid analysis experts do the rest – using proprietary processes, sophisticated chemistry, and the latest technology to reveal excessive wear, contaminated fluids, or other unseen issues. You get reports you can understand and recommendations you can act on, fast.



6 REASONS TO CHOOSE CAT S·O·S℠ FLUID ANALYSIS

1. **Get Results You Can Trust**
   The S•O•S process is built by Caterpillar scientists and backed by product engineers. Our worldwide testing standards ensure consistent quality, so you receive accurate, detailed results every time.

2. **See Sophisticated Trend Analysis**
   We evaluate your sample based on complete product knowledge, fluid properties, and analysis of millions of data points – with more than 7 million samples tested each year.

3. **Our Experts Care About Your Bottom Line**
   Your Cat dealer can set a sampling schedule tailored to your needs and integrate it into a robust equipment management program. Not only will you save by fixing issues before failure, but you can also enhance your operations to help control costs.

4. **Enjoy Complete Condition Knowledge**
   Your fluid data is integrated with other vital condition monitoring information – giving you insights into health, performance, location, and more. With global software, you can seamlessly sample with any Caterpillar lab and get a complete history.

5. **Mixed Fleet? We Have You Covered**
   Our team knows engines and components better than anyone, whether made by us or another manufacturer. About 25% of all samples come from equipment other than Caterpillar. We're your total solution for mixed fleets.

6. **We're Built For Every Type Of Fluid And Application**
   Caterpillar handles oil, coolant, and diesel fuel sampling for all kinds of equipment from power generation to pipeline, mining to marine, and more.

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MAKE THE SWITCH TODAY

Transitioning to Cat ELC Advanced, which replaces DEAC and NGEC coolants, is easy! Contact your Cat dealer to learn more about this improved formula and how it can help simplify your maintenance while extending the life of your coolant and cooling system.

SPECIFICATION	ELC ADVANCED	ELC	DEAC	NGEC
Aluminum Protection	Best	Good	Good	Good
Service drain interval[1]	20,000 hours/6 years	12,000 hours/6 years	3,000 hours/3 years	3,000 hours/3 years
Conformance to internationally recognized ASTM Heavy Duty Coolant Standard ASTM D6210	Meets and Exceeds	Meets and Exceeds	Meets	Meets
Cavitation test result (ASTM D6210 limit is 200)[2]	70 pit count	83 pit count	~60 (if maintained like new over the life of the coolant)	~60 (if maintained like new over the life of the coolant)
Silicone seal compatible[3]	Yes	No	Yes	Yes
Extender Requirement	6,000 hours/3 years	6,000 hours/3 years	N/A	N/A
Supplemental coolant additive (SCA) requirements	N/A	N/A	SCA every 250 hrs	SCA every 250 hrs
Approved for use with Cat® Gas Engines	Yes	No	Yes	Yes

[1] Cat ELC has been tested and validated on Cat gas engines. The recommended fluid drain interval for your engine is published in the Cat Operation and Maintenance Manual (OMM). These fluid drains are for typical applications when Cat fluids, Cat filters, Cat S•O•S Services, and Cat recommended maintenance activities are followed.

[2] The Liner Cavitation (ASTM D7583) bench test indicates how effective the coolant is at preventing engine cylinder liner cavitation (pitting). The presence of pitting is an indicator of potential engine failure; as the coolant deteriorates, so too will its ability to prevent cavitation.

[3] Cat coolants listed (except ELC) are compatible with non Cat silicone seals.

RECOMMENDED USE

Cat ELC Advanced meets or exceeds the requirements of the following specifications and guidelines:

- ASTM D-6210
- ASTM D-3306
- Caterpillar EC-1
- Deutz DQC CB-14
- TMC RP-364, -351 (color)
- Phosphate-free requirement of European OEMs
- Silicate-free requirement of Japanese OEMs



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