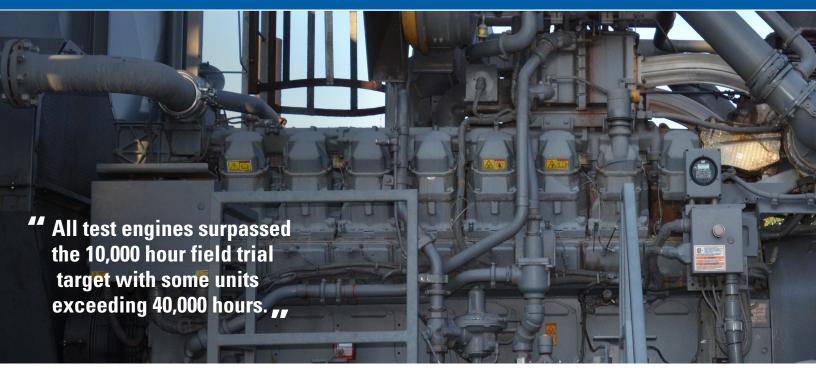


# **CHEVRON DELO ELC ADVANCED ANTIFREEZE/COOLANT**





#### **STUDY OVERVIEW**

Conventional coolants are prone to silicate buildup and scale formation that can lead to blocked passageways which significantly reduces heat transfer efficiency. Delo ELC Advanced is specifically engineered with cutting-edge technologies to address these challenges and more. To evaluate and prove the performance of this advanced formulation, Chevron conducted a two-year field trial of Delo ELC Advanced in Caterpillar 3500/3600 and GE Waukesha Series Four gas compression engines to evaluate real world performance. The goal was to maintain acceptable levels of corrosion metals and inhibitors throughout a minimum test duration of 10,000 hours.

#### STATIONARY NATURAL GAS ENGINE FIELD TEST PARAMETERS

Key performance areas evaluated included pH, water content, inhibitor levels, and corrosion metal presence, followed by a post-test engine parts inspection.

#### **Delo ELC Advanced Coolant Product Attributes:**

- Next-generation, ethylene glycol-based NOAT formulation for extended life coolant system protection in both on- and off-highway applications
- Patented aluminum passivation technology reduces negative reactions with brazed aluminum radiators and other aluminum coolant system components
- 2-EHA free formula ready for future industry mandates

#### **CONNECT WITH A DELO SPECIALIST**

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# **FIELD TEST RESULTS**

# Delo

## **PH LEVELS**

**COOLANT TES** 

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Reduced pH levels can result in corrosion of cooling system metals. In glycol-based coolants, oxidation can lead to the formation of glycolates, lowering the pH.

### CORROSION INHIBITORS

## I THREAT

Threat: The presence of

component metals and

deposits in the cooling

system is an indication

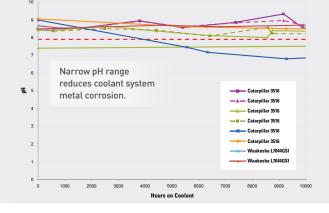
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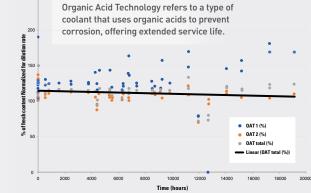
#### WATER CONTENT

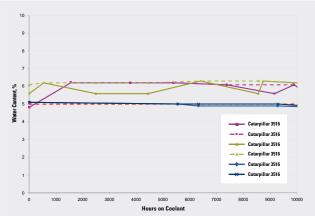
of corrosion.

#### 1 THREAT

Roughly 10% of the previous cooling fluid remained in the system, impacting the concentration of available coolant additives.









#### S PERFORMANCE

When testing a number of different engines over a period of 10,000 hours we saw **stable pH levels** indicating a reduced risk of deterioration in system metal components.



#### 

Over a period of 20,000 hours **advanced corrosion inhibitors remained at sufficient concentrations** to ensure extended metals protection.

# (H<sub>2</sub>0)

#### **O** PERFORMANCE

When testing a number of different engines over a period of 10,000 hours Delo ELC Advanced formulation showed **remarkable water stability and excellent protection** well past target drain intervals.

### DELO ELC ADVANCED SURPASSED THE 10,000 HOUR SERVICE EXPECTATION

# EXCEEDING 40,000 HRS

### IN SOME TEST ENGINES.

The participating customer is now converting their entire fleet to Delo ELC Advanced Coolant.

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