

Customer Information

SILVERADO SITE SERVICES - PME

Attention : Jason Tharp
 Phone :
 Fax :

Equipment Information

Unit # : 889-003
 Component : COOLANT
 Location :
 Unit Mfr/Model : CATERPILLAR CW16
 Unit Serial # : CAT0CB10HL9R00228
 Comp Mfr/Model : CATERPILLAR CW16
 Comp Serial # :
 Site Location :

Coolant

Manufacturer :
 Brand :
 Grade :
 Sample # : 2026/05/25-46
 Lab Tracking # : 59NE - 69127

V21-4
 Jun

FLUID LIFE

EQUIPMENT RELIABILITY SERVICES

Coolant Analysis

4371 Savaryn Drive SW, Edmonton
 Alberta, Canada, T6X 2E8
 Phone: 877 962 2400
 Web: www.fluidlife.com

Sample Information

Sample Date	Sample No.	Coolant Changed	Comp. Service	Oil Service	Units
	Ref. Sample				
2026/05/21	2026/05/25-46	N	-807		

Physical Tests

Refractive Index	% Glycol	Freeze Point (°C)	Boiling Point (°C)	ph	Conductivity (µS/cm)
1.3898	54.4	-43	107	7.63	3427

Appearance Tests

Sample Date	Color	Odor	Clarity	Precipitate	Magnetic Precipitate
Mfg Typical					
2026/05/21	Red	GD	CLR	N	N

Additives

Nitrites ppm

Results

2026/05/21 Coolant is acceptable for use.
 This sample of coolant is clear and bright.
 This coolant sample is free of any visible solid particulate.

Recommendations

2026/05/21 Resample next interval to monitor.

Key: Y - Yes N - Negative P - Positive R - Reportable **S** - Severe I - Insufficient Sample > - More Than < - Less Than ~ - Lab Estimated ↗ - Updated

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Glossary

There are three different types of coolant on the market today. The traditional coolant uses inorganic acid technology. Organic acid technology (OAT) coolants have a longer life and use organic acids as inhibitors. The third type is a hybrid and uses both organic and inorganic acid inhibitors. As a rule of thumb, the different types should not be mixed as the additives may react and the coolant lose its properties.

Freeze Point - This indicates the temperature at which the coolant mixture will freeze.

Boiling Point - This is the temperature where the coolant will start boiling. Boiling will dramatically reduce the heat transfer properties of the coolant.

pH - This is an indication of the acidity/alkalinity of the coolant. The pH ranges depend on the type of coolant used.

Conductivity - This is measured in microsiemens per centimeter and as the value increases, there is a greater chance that current can be transmitted through the coolant. This can destroy the effectiveness of the inhibitors. In extreme cases, this will accelerate corrosion and/or pitting.

Nitrites - These are inhibitors that are sometimes used to prevent iron corrosion and cavitation.

Reserve Alkalinity - This is a measure of how much buffer is still available in the coolant. Note that the pH of a coolant will not change much until the buffer package is depleted. This is an optional additional test. If you would like to perform this test please contact your Account Manager or Customer Care at customer care@fluidlife.com

Appearance Test - A coolant should be clear with no distinctive odor or precipitate.

For further information, please see the Coolant Interpretation guide available from Fluid Life.

Abbreviations

Odor

- NH4 - Ammonia
- BUR - Burnt odor
- FUN - Fungal odor
- FUE - Diesel fuel
- SOL - Solvent
- GD - Good, acceptable

Clarity

- CLR - Clear
- CLD - Cloudy
- HAZ - Hazy

Precipitate

- FLU - Fluffy
- CHU - Chunks
- N - Negative
- DIR - Dirt
- FLA - Flakes
- SLU - Sludge
- TRACE Trace

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Location :
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Unit Serial # : CAT0CB10HL9R00228
Comp Mfr/Model : CATERPILLAR / C3.6
Comp Serial # :

Lubricant

Manufacturer :
Brand :
Grade :
Sample # : 2026/05/25-11
Lab Tracking # : 59SK - 69061



EQUIPMENT RELIABILITY SERVICES

Oil Analysis

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Sample		Wear Metals ppm														Additives ppm							
Sample Number	Sample Date	Aluminum	Iron	Copper	Lead	Tin	Chromium	Nickel	Titanium	Silver	Vanadium	Antimony	Beryllium	Manganese	Cadmium	Calcium	Zinc	Phosphorus	Magnesium	Molybdenum	Boron	Barium	Lithium
Ref. Sample																							
05/25-011	2026/05/21	3	29	2	0	0	0	0	0	0	0	0	0	1	0	1218	1272	1195	963	66	5	0	0

Sample Information								Contaminants ppm			Physical Tests						Additional Tests		
Sample Date	Oil Mfr.	Oil Brand	Oil Grade	Component Service	Oil Service	Units	Oil Chg	Sodium	Potassium	Silicon	Visc 40°C cSt	Visc 100°C cSt	Visc Index	Water	Glycol %	Fuel %	Soot %	NIT (DT) (Abs/0.1mm)	OX (DT) (Abs/0.1mm)
Ref. Sample																			
2026/05/21				~807			N	1	2	7		11.65		N	NT	1.05	0.20	7.69	19.4

Results

2026/05/21 Assuming normal oil service life, tested wear and contamination are within acceptable limits.

Recommendations

2026/05/21 Resample next interval to monitor.

Key: Y - Yes N - Negative P - Positive R - Reportable U - Unacceptable S - Severe I - Insufficient Sample - Data could not be provided NT - Not Triggered - Updated ~ - Lab Estimated

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Comp Serial # :

Lubricant

Manufacturer :
Brand :
Grade :
Sample # : 2026/05/25-11
Lab Tracking # : 59SK - 69061

FLUID LIFE

EQUIPMENT RELIABILITY SERVICES

Trend Analysis

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Additional Tests

Sul (DT)
(Abs/0.1mm)

21.4

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Lubricant

Manufacturer :
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Grade :
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Trend Analysis

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Your Sample Rank

2.6

Normal
0 - 5

Elevated
5 - 8

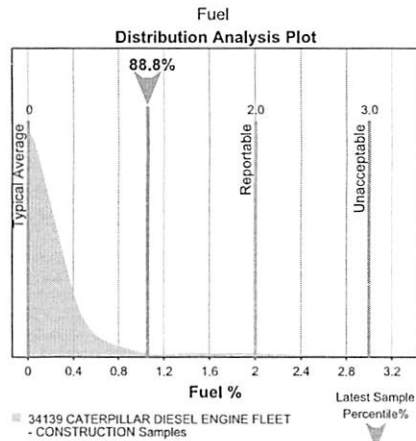
High
8 - 9

Very High
Over 9
10

Sample rank ranges from zero to ten. The higher the sample rank, the more abnormal the sample results are.

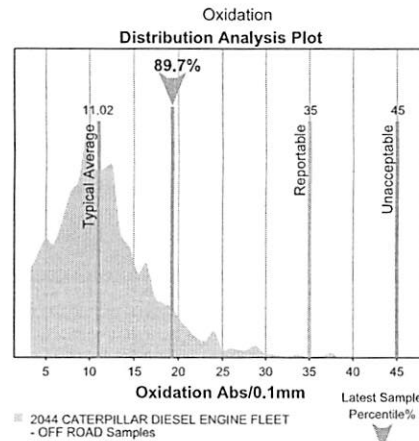
Top Trends Analysis

Fuel Test Rank 8.5



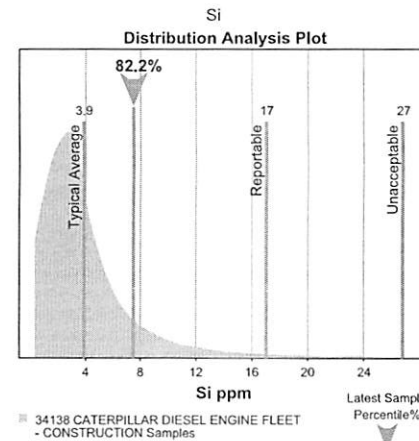
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Oxidation Test Rank 5.0



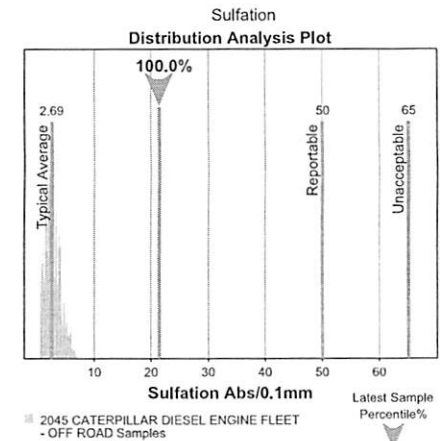
No trend analysis available.

Si Test Rank 4.0



No trend analysis available.

Sulfation Test Rank 3.2



No trend analysis available.

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Unit Serial # : CAT0CB10HL9R00228
Comp Mfr/Model : CATERPILLAR / CW16
Comp Serial # :

Lubricant

Manufacturer :
Brand :
Grade :
Sample # : 2026/05/25-10
Lab Tracking # : 59ME - 69197



Oil Analysis

4371 Savaryn Drive SW, Edmonton
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Phone: 877 962 2400

Sample		Wear Metals ppm														Additives ppm							
Sample Number	Sample Date	Aluminum	Iron	Copper	Lead	Tin	Chromium	Nickel	Titanium	Silver	Vanadium	Antimony	Beryllium	Manganese	Cadmium	Calcium	Zinc	Phosphorus	Magnesium	Molybdenum	Boron	Barium	Lithium
Ref. Sample																							
05/25-010	2026/05/21	0	11	8	1	0	0	0	0	0	0	0	0	0	0	1251	578	660	10	0	4	0	0

Sample Information								Contaminants ppm			Physical Tests			
Sample Date	Oil Mfr.	Oil Brand	Oil Grade	Component Service	Oil Service	Units	Oil Chg	Sodium	Potassium	Silicon	Visc 40°C cSt	Visc 100°C cSt	Visc Index	Water
Ref. Sample														
2026/05/21				~807			N	1	2	6		8.37		N

Results
2026/05/21 Tested wear and contamination levels are within acceptable limits.

Recommendations
2026/05/21 Resample next interval to monitor.

Key: Y - Yes N - Negative P - Positive R - Reportable U - Unacceptable S - Severe I - Insufficient Sample - Data could not be provided NT - Not Triggered ^ - Updated ~ - Lab Estimated

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Lubricant

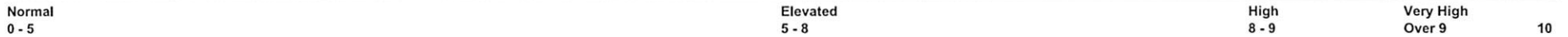
Manufacturer :
Brand :
Grade :
Sample # : 2026/05/25-10
Lab Tracking # : 59ME - 69197

Trend Analysis

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Your Sample Rank

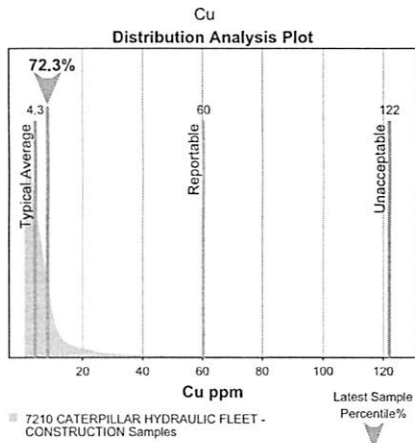
0.0



Sample rank ranges from zero to ten. The higher the sample rank, the more abnormal the sample results are.

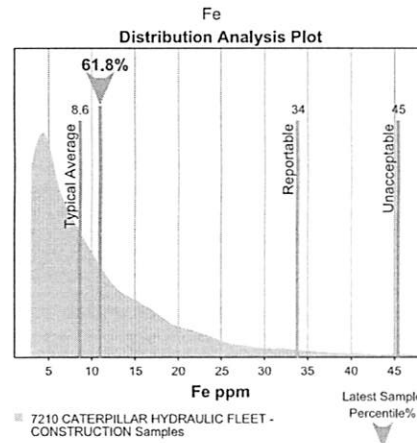
Top Trends Analysis

Cu Test Rank 2.8



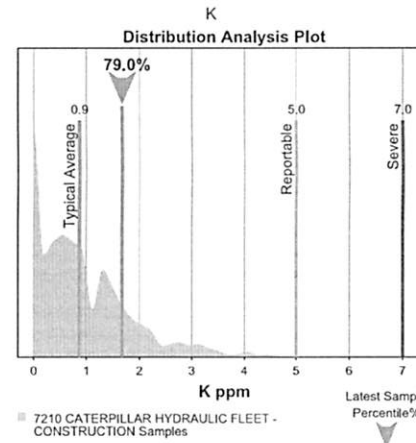
No trend analysis available.

Fe Test Rank 1.8



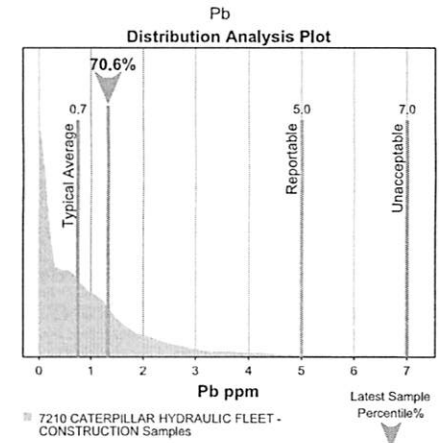
No trend analysis available.

K Test Rank 0.9



No trend analysis available.

Pb Test Rank 0.5



No trend analysis available.