

Customer Information

SILVERADO SITE SERVICES - PME

Attention : Jason Tharp
 Phone :
 Fax :

Equipment Information

Unit # : 889-016
 Component : COOLANT
 Location :
 Unit Mfr/Model : CATERPILLAR RM350B
 Unit Serial # : CATRM350HAXW00279
 Comp Mfr/Model : CATERPILLAR RM350B
 Comp Serial # :
 Site Location :

Coolant

Manufacturer :
 Brand :
 Grade :
 Sample # : 2026/05/25-3
 Lab Tracking # : 59AV - 63426

V21-11
 JW

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	2026/05/25-3	N	-6775		

Physical Tests

Refractive Index	% Glycol	Freeze Point (°C)	Boiling Point (°C)	ph	Conductivity (µS/cm)
1.3875	52.0	-40	107	8.15	2515

Appearance Tests

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

Additives

Nitrites ppm

Results

2026/05/21 This sample of coolant is clear and bright. There is visible particulate contamination in this sample. Based on the appearance, it appears to be dirt/dust.

Recommendations

2026/05/21 Solid particulate in the cooling system can lead to water pump and seal abrasion and subsequent leakage, copper and aluminum corrosion, and plugged oil cooler and radiator. Assess severity of contamination, and consider filtration or flushing as means to clean coolant reservoir if necessary.

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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Coolant

Manufacturer :
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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 customercare@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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Equipment Information

Unit # : 889-016
Component : ENGINE
Location :
Unit Mfr/Model : CATERPILLAR / RM350B
Unit Serial # : CATRM350HAXW00279
Comp Mfr/Model : CATERPILLAR / 3406
Comp Serial # :

Lubricant

Manufacturer :
Brand :
Grade :
Sample # : 2026/05/25-36
Lab Tracking # : 59JD - 63436



EQUIPMENT RELIABILITY SERVICES

Oil Analysis

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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																							
05/25-036	2026/05/21	2	21	2	1	0	0	0	0	0	0	0	0	0	0	1279	1172	1116	782	68	15	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				~6775			Y	1	1	5		10.51		N	NT	7.96	0.16	8.65	21.0	

Results

2026/05/21 Note Fuel.
Fuel dilution most likely will originate from the unit injector. It can also originate from the fuel transfer pump or a porous cylinder head.

Recommendations

2026/05/21 Severe fuel leaks can result in catastrophic engine damage. Immediate corrective action is suggested. Inspect for damage to fuel pump, fuel lines, fuel fittings and cylinders. Verify timing and air/fuel ratio. Repair as necessary. Shorten oil drain intervals and oil sample intervals to at least one-half until fuel indication returns to normal.
Oil should be changed and the source of fuel dilution should be found and corrected

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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Unit Serial # : CATRM350HAXW00279
Comp Mfr/Model : CATERPILLAR / 3406
Comp Serial # :

Lubricant

Manufacturer :
Brand :
Grade :
Sample # : 2026/05/25-36
Lab Tracking # : 59JD - 63436

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EQUIPMENT RELIABILITY SERVICES

Trend Analysis

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Additional Tests

Sul (DT)
(Abs/0.1mm)

22.6

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Comp Mfr/Model : CATERPILLAR / 3406
Comp Serial # :

Lubricant

Manufacturer :
Brand :
Grade :
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EQUIPMENT RELIABILITY SERVICES

Trend Analysis

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Your Sample Rank



Normal
0 - 5

Elevated
5 - 8

High
8 - 9

Very High
Over 9

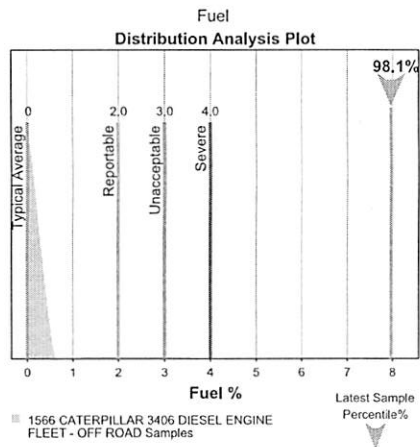
10

10

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

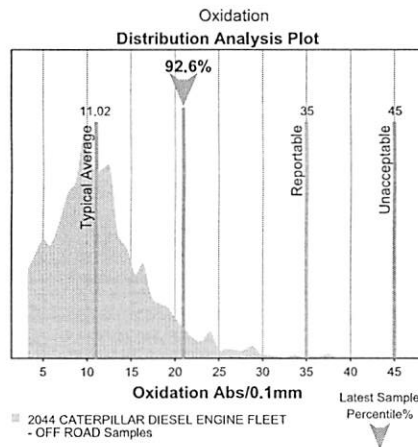
Top Trends Analysis

Fuel Test Rank 10



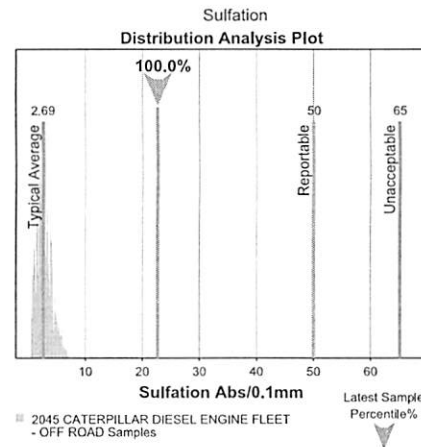
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Oxidation Test Rank 5.4



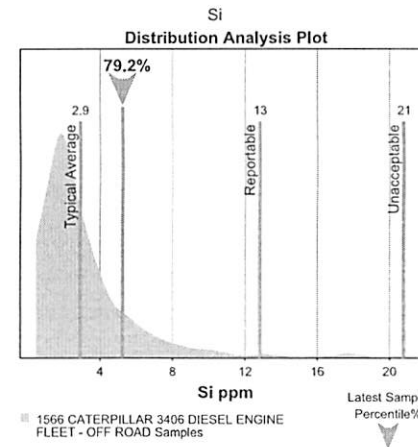
No trend analysis available.

Sulfation Test Rank 3.2



No trend analysis available.

Si Test Rank 2.7



No trend analysis available.

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Unit # : 889-016
Component : HYDRAULIC
Location :
Unit Mfr/Model : CATERPILLAR / RM350B
Unit Serial # : CATRM350HAXW00279
Comp Mfr/Model : CATERPILLAR / RM350B
Comp Serial # :

Lubricant

Manufacturer :
Brand :
Grade :
Sample # : 2026/05/25-37
Lab Tracking # : 59U8 - 45541

FLUID LIFE

EQUIPMENT RELIABILITY SERVICES

Oil Analysis

4371 Savaryn Drive SW, Edmonton
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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																							
05/25-037	2026/05/21	2	10	47	1	0	0	0	0	0	0	0	0	0	0	1826	742	715	117	4	167	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				~675			N	1	0	5		6.79		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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Component : HYDRAULIC
Location :
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Unit Serial # : CATRM350HAXW00279
Comp Mfr/Model : CATERPILLAR / RM350B
Comp Serial # :

Lubricant

Manufacturer :
Brand :
Grade :
Sample # : 2026/05/25-37
Lab Tracking # : 59U8 - 45541

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Trend Analysis

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Your Sample Rank

0.0

Normal
0 - 5

Elevated
5 - 8

High
8 - 9

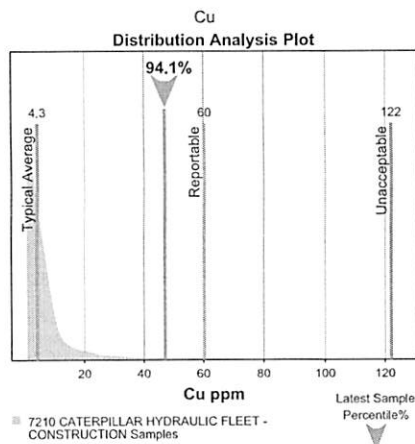
Very High
Over 9

10

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

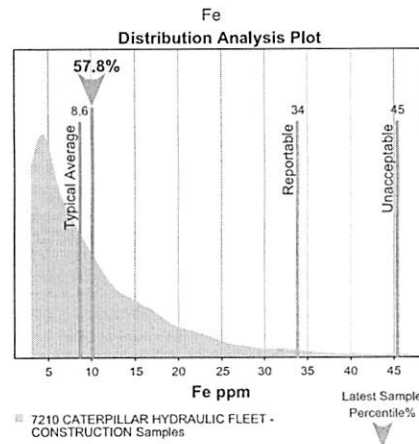
Top Trends Analysis

Cu Test Rank 5.6



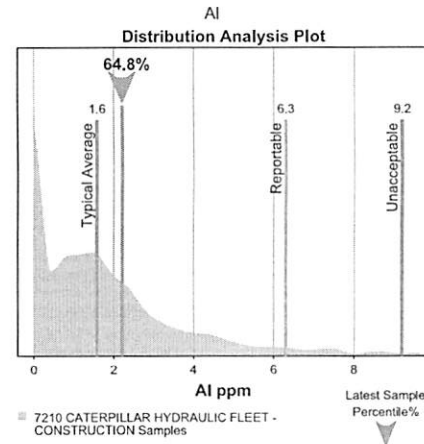
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Fe Test Rank 1.4



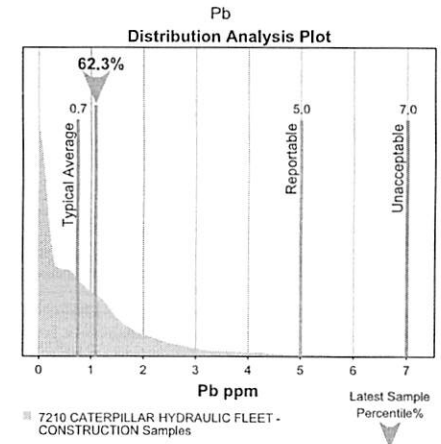
No trend analysis available.

Al Test Rank 0.7



No trend analysis available.

Pb Test Rank 0.3



No trend analysis available.

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Unit # : 889-016
Component : TRANSMISSION
Location :
Unit Mfr/Model : CATERPILLAR / RM350B
Unit Serial # : CATRM350HAXW00279
Comp Mfr/Model : CATERPILLAR / RM350B
Comp Serial # :

Lubricant

Manufacturer :
Brand :
Grade :
Sample # : 2026/05/25-34
Lab Tracking # : 59B1 - 63427



Oil Analysis

4371 Savaryn Drive SW, Edmonton
Alberta, Canada T6X 2E8
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																							
05/25-034	2026/05/21	3	65	1	1	0	0	0	0	0	0	0	0	1	0	3002	949	855	22	1	21	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	Glycol %
Ref. Sample															
2026/05/21				~6775			N	1	0	9		6.47		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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Comp Mfr/Model : CATERPILLAR / RM350B
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Lubricant

Manufacturer :
Brand :
Grade :
Sample # : 2026/05/25-34
Lab Tracking # : 59B1 - 63427

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Your Sample Rank

0.0

Normal
0 - 5

Elevated
5 - 8

High
8 - 9

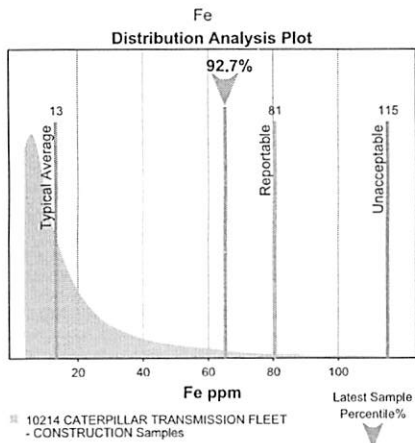
Very High
Over 9

10

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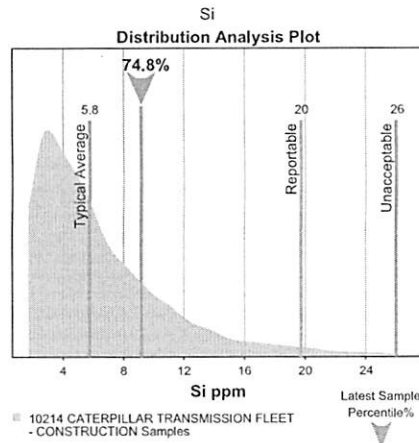
Top Trends Analysis

Fe Test Rank 5.4



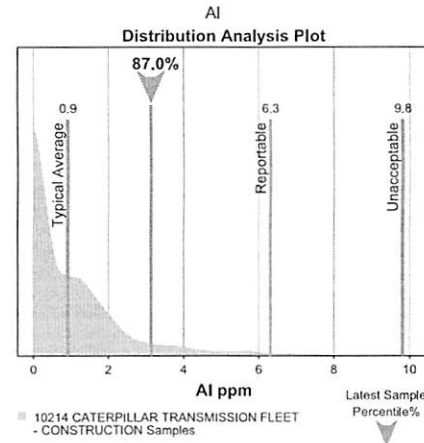
No trend analysis available.

Si Test Rank 3.1



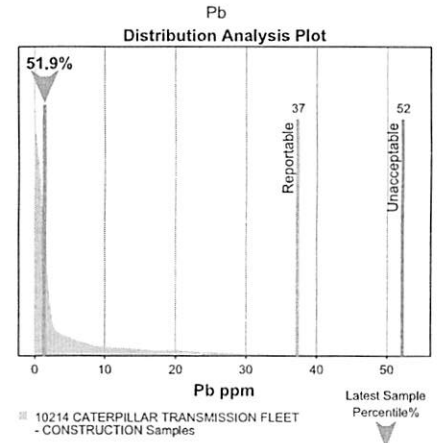
No trend analysis available.

Al Test Rank 2.1



No trend analysis available.

Pb Test Rank 0.2



No trend analysis available.