

### Customer Information

SILVERADO SITE SERVICES - PME

Attention : Jason Tharp  
 Phone :  
 Fax :

### Equipment Information

Unit # : 9889-009  
 Component : COOLANT  
 Location :  
 Unit Mfr/Model : CATERPILLAR AP-1055F  
 Unit Serial # : CATAP105HF7T00406  
 Comp Mfr/Model : CATERPILLAR AP-1055F  
 Comp Serial # :  
 Site Location :

### Coolant

Manufacturer :  
 Brand :  
 Grade :  
 Sample # : 2026/05/25-7  
 Lab Tracking # : 59JX - 45436



### 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	2026/05/25-7	N	~1175		

### Physical Tests

Refractive Index	% Glycol	Freeze Point (°C)	Boiling Point (°C)	ph	Conductivity (µS/cm)
1.3881	52.6	-41	107	8.77	3115

### Appearance Tests

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

### Additives

Nitrites ppm

### Results

2026/05/21 Fungal odor is a result from fungal growth in the coolant. 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 Check or assess system for source of contamination. 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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Site Location :

## Coolant

Manufacturer :  
Brand :  
Grade :  
Sample # : 2026/05/25-7  
Lab Tracking # : 59JX - 45436

# FLUID LIFE

EQUIPMENT RELIABILITY SERVICES

## Coolant Analysis

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

## 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](mailto: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

### Customer Information

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### Equipment Information

Unit # : 9889-009  
Component : ENGINE  
Location :  
Unit Mfr/Model : CATERPILLAR / AP-1055F  
Unit Serial # : CATAP105HF7T00406  
Comp Mfr/Model : CATERPILLAR / C7.1  
Comp Serial # :

### Lubricant

Manufacturer :  
Brand :  
Grade :  
Sample # : 2026/05/25-30  
Lab Tracking # : 59V0 - 45540

# FLUID LIFE

EQUIPMENT RELIABILITY SERVICES

### 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																							
05/25-030	2026/05/21	3	12	195	0	0	0	0	0	0	0	1	0	0	0	1217	1323	1278	1037	69	2	0	0
02/18-759	2025/01/25	3	31	49	1	2	1	0	0	0	0	0	0	3	0	1990	1230	1090	594	45	45	2	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				~1175	~1175	HR	N	1	0	5		13.72		N	NT	NT	0.15	6.36	17.9
2025/01/25				540	540	HR	N	0	1	11		11.02		N	NT	<0.60	0.29	10.3	27.2

### Results

2026/05/21 Tested wear and contamination levels are within acceptable limits.  
2025/01/25 Tested wear and contamination levels are within acceptable limits.

### Recommendations

2026/05/21 Resample next interval to monitor.  
2025/01/25 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 : ENGINE  
Location :  
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Unit Serial # : CATAP105HF7T00406  
Comp Mfr/Model : CATERPILLAR / C7.1  
Comp Serial # :

**Lubricant**

Manufacturer :  
Brand :  
Grade :  
Sample # : 2026/05/25-30  
Lab Tracking # : 59V0 - 45540



**Trend Analysis**

4371 Savaryn Drive SW, Edmonton  
Alberta, Canada T6X 2E8  
Phone: 877 962 2400

**Additional Tests**

Sul (DT)  
(Abs/0.1mm)

21.3

26.7

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Component : ENGINE  
Location :  
Unit Mfr/Model : CATERPILLAR / AP-1055F  
Unit Serial # : CATAP105HF7T00406  
Comp Mfr/Model : CATERPILLAR / C7.1  
Comp Serial # :

**Lubricant**

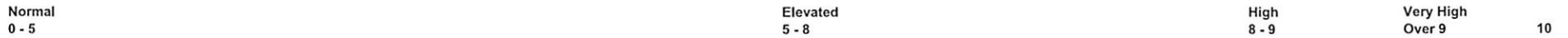
Manufacturer :  
Brand :  
Grade :  
Sample # : 2026/05/25-30  
Lab Tracking # : 59V0 - 45540

**Trend Analysis**

4371 Savaryn Drive SW, Edmonton  
Alberta, Canada T6X 2E8  
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**Your Sample Rank**

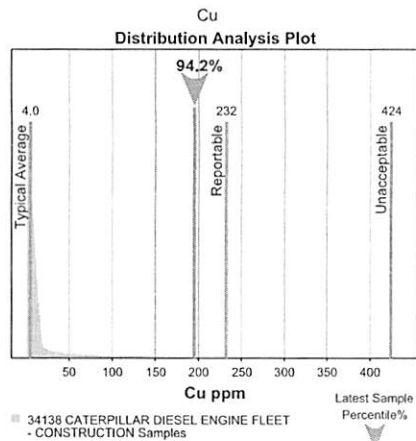
0.0



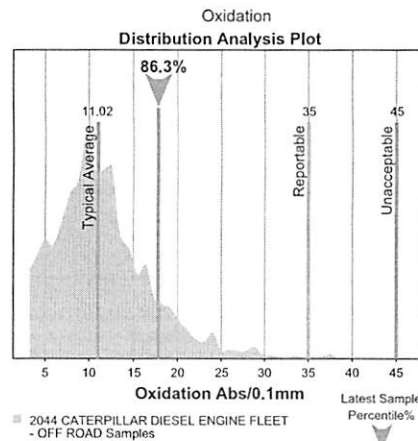
Sample rank ranges from zero to ten. The higher the sample rank, the more abnormal the sample results are.

**Top Trends Analysis**

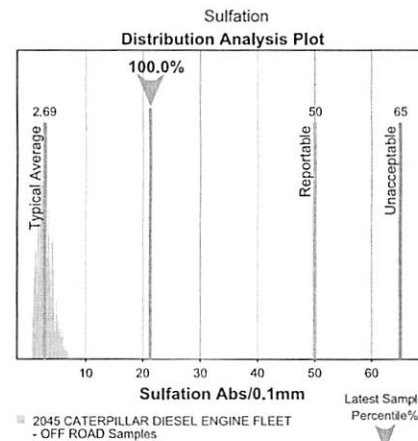
Cu Test Rank 5.6



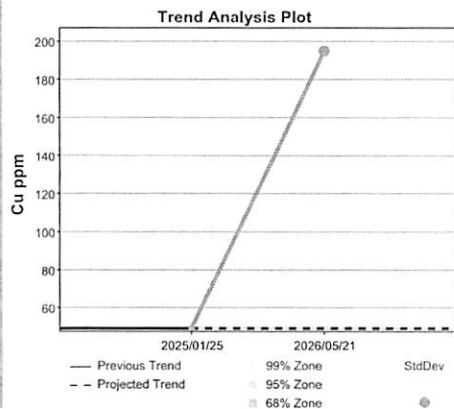
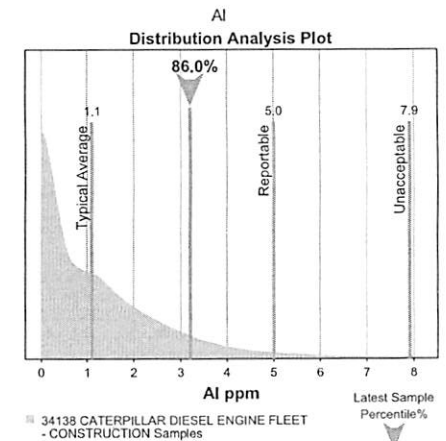
Oxidation Test Rank 4.5



Sulfation Test Rank 3.2

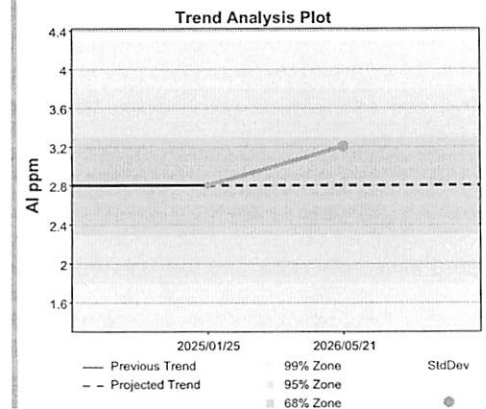


Al Test Rank 2.1



No trend analysis available.

No trend analysis available.



**Customer Information**  
SILVERADO SITE SERVICES - PME

Attention : Jason Tharp  
Phone :

**Equipment Information**

Unit # : 9889-009  
Component : HYDRAULIC  
Location :  
Unit Mfr/Model : CATERPILLAR / AP-1055F  
Unit Serial # : CATAP105HF7T00406  
Comp Mfr/Model : CATERPILLAR / AP-1055F  
Comp Serial # :

**Lubricant**

Manufacturer :  
Brand :  
Grade :  
Sample # : 2026/05/25-41  
Lab Tracking # : 59XZ - 45568



**Oil Analysis**

4371 Savaryn Drive SW, Edmonton  
Alberta, Canada T6X 2E8  
Phone: 877 962 2400

Sample Number	Sample Date	Wear Metals ppm														Additives ppm								
		Aluminum	Iron	Copper	Lead	Tin	Chromium	Nickel	Titanium	Silver	Vanadium	Antimony	Beryllium	Manganese	Cadmium	Calcium	Zinc	Phosphorus	Magnesium	Molybdenum	Boron	Barium	Lithium	
Ref. Sample																								
05/25-041	2026/05/21	0	5	9	0	0	0	0	0	0	0	0	0	0	0	0	271	766	627	5	0	0	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				~1175			N	0	0	1		6.53		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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**Equipment Information**

Unit # : 9889-009  
Component : HYDRAULIC  
Location :  
Unit Mfr/Model : CATERPILLAR / AP-1055F  
Unit Serial # : CATAP105HF7T00406  
Comp Mfr/Model : CATERPILLAR / AP-1055F  
Comp Serial # :

**Lubricant**

Manufacturer :  
Brand :  
Grade :  
Sample # : 2026/05/25-41  
Lab Tracking # : 59XZ - 45568

**Trend Analysis**

4371 Savaryn Drive SW, Edmonton  
Alberta, Canada T6X 2E8  
Phone: 877 962 2400

**Your Sample Rank**

0.0

**Normal**  
0 - 5

**Elevated**  
5 - 8

**High**  
8 - 9

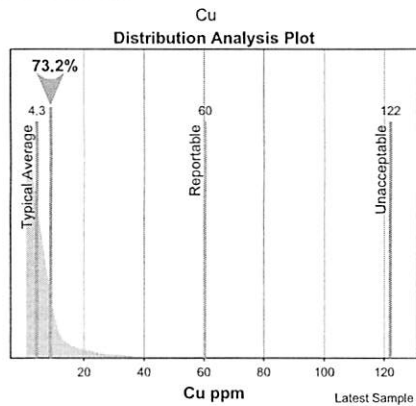
**Very High**  
Over 9

10

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

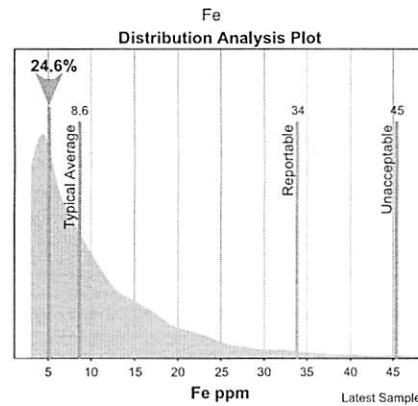
**Top Trends Analysis**

Cu Test Rank 2.9



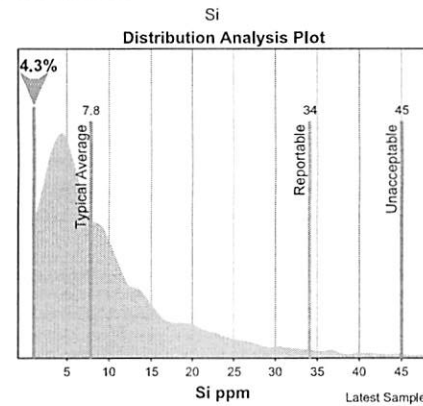
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Fe Test Rank 0.2



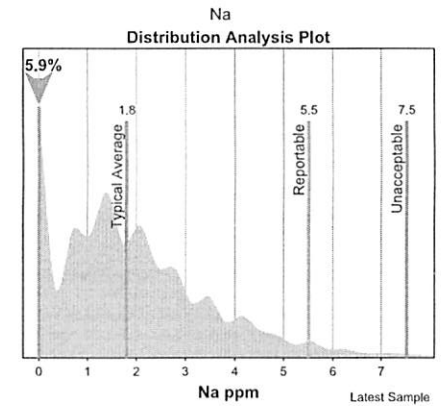
No trend analysis available.

Si Test Rank 0.0



No trend analysis available.

Na Test Rank 0.0



No trend analysis available.

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**Equipment Information**

Unit # : 9889-009  
Component : TRANSMISSION  
Location :  
Unit Mfr/Model : CATERPILLAR / AP-1055F  
Unit Serial # : CATAP105HF7T00406  
Comp Mfr/Model :  
Comp Serial # :

**Lubricant**

Manufacturer :  
Brand :  
Grade :  
Sample # : 2026/05/25-35  
Lab Tracking # : 59LZ - 45426



EQUIPMENT RELIABILITY SERVICES

**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																							
05/25-035	2026/05/21	0	3	1	0	0	0	0	0	0	0	0	0	0	0	2801	1070	992	13	2	5	4	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				~1175			N	2	2	36		6.30		N	

**Results**

2026/05/21 Silicon above acceptable limits.

**Recommendations**

2026/05/21 Silicon is typically an outside contaminant such as dirt/dust. It can also originate from seals and sealants in new or rebuilt transmissions. Change or filter lubricant if possible. Change filters if present on this component. Resample mid - 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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Unit # : 9889-009  
Component : TRANSMISSION  
Location :  
Unit Mfr/Model : CATERPILLAR / AP-1055F  
Unit Serial # : CATAP105HF7T00406  
Comp Mfr/Model :  
Comp Serial # :

**Lubricant**

Manufacturer :  
Brand :  
Grade :  
Sample # : 2026/05/25-35  
Lab Tracking # : 59LZ - 45426



**Trend Analysis**

4371 Savaryn Drive SW, Edmonton  
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**Your Sample Rank**

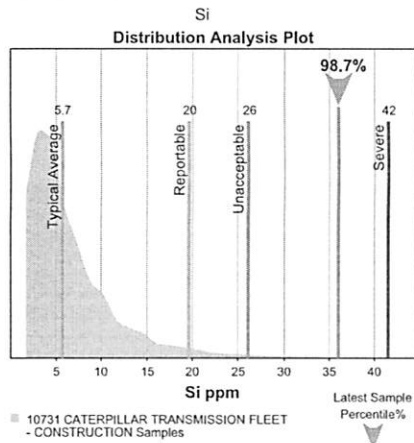


**Normal** 0 - 5      **Elevated** 5 - 8      **High** 8 - 9      **Very High** Over 9      10

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

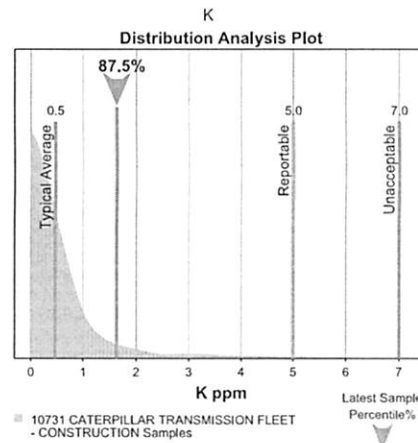
**Top Trends Analysis**

Si Test Rank 7.5



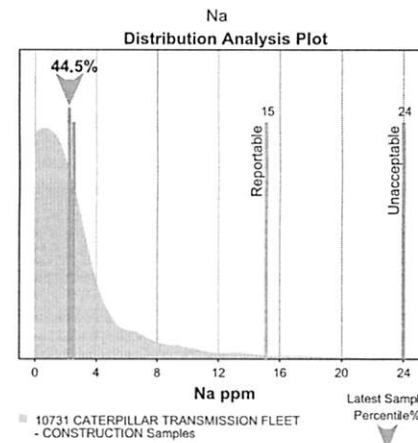
No trend analysis available.

K Test Rank 1.1



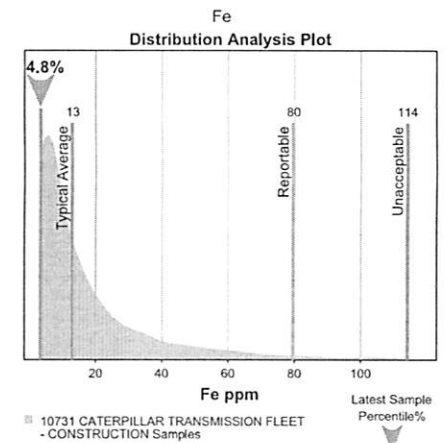
No trend analysis available.

Na Test Rank 0.2



No trend analysis available.

Fe Test Rank 0.1



No trend analysis available.