

**Customer Information**

SILVERADO SITE SERVICES - PME

Attention : Jason Tharp  
Phone :

**Equipment Information**

Unit # : 889-001  
Component : HYDRAULIC  
Location :  
Unit Mfr/Model : CATERPILLAR / AP555F  
Unit Serial # : CATAP555HAP500260  
Comp Mfr/Model :  
Comp Serial # :

**Lubricant**

Manufacturer :  
Brand :  
Grade :  
Sample # : 2026/05/25-42  
Lab Tracking # : 59ZZ - 63413



**Oil Analysis**

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

| Sample        |             | Wear Metals<br>ppm |      |        |      |     |          |        |          |        |          |          |           |           |         | Additives<br>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   |             |                    |      |        |      |     |          |        |          |        |          |          |           |           |         |                  |      |            |           |            |       |        |         |
| 05/25-042     | 2026/05/21  | 1                  | 9    | 5      | 1    | 0   | 0        | 0      | 0        | 0      | 0        | 0        | 0         | 0         | 0       | 1664             | 827  | 746        | 12        | 10         | 13    | 0      | 0       |

**Sample Information**

| Sample Date | Oil Mfr. | Oil Brand | Oil Grade | Component Service | Oil Service | Units | Oil Chg |
|-------------|----------|-----------|-----------|-------------------|-------------|-------|---------|
| Ref. Sample |          |           |           |                   |             |       |         |
| 2026/05/21  |          |           |           | ~3787             |             |       | N       |

**Contaminants  
ppm**

| Sodium      | Potassium | Silicon |
|-------------|-----------|---------|
| Ref. Sample |           |         |
| 2026/05/21  | 1         | 4       |

**Physical Tests**

| Visc 40°C cSt | Visc 100°C cSt | Visc Index | Water |
|---------------|----------------|------------|-------|
| Ref. Sample   |                |            |       |
| 2026/05/21    | 7.19           |            | 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 Serial # :

**Lubricant**

Manufacturer :  
Brand :  
Grade :  
Sample # : 2026/05/25-42  
Lab Tracking # : 59ZZ - 63413

**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

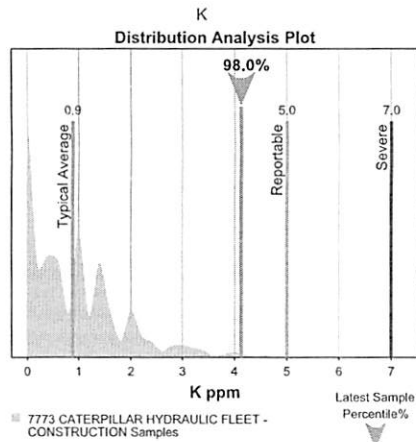
Very High  
Over 9

10

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

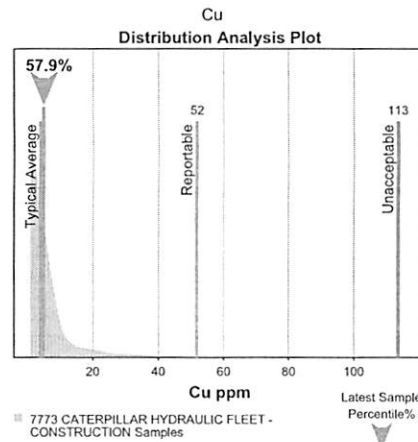
**Top Trends Analysis**

K Test Rank 3.6



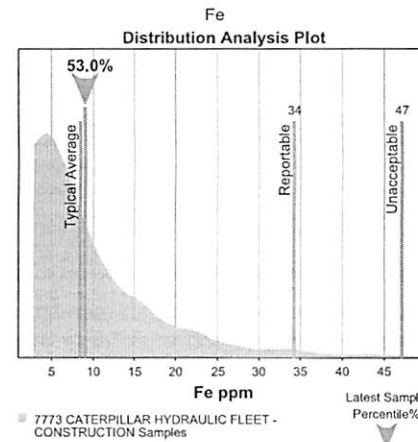
No trend analysis available.

Cu Test Rank 1.0



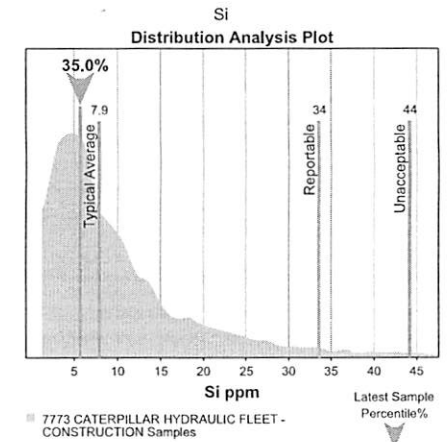
No trend analysis available.

Fe Test Rank 1.0



No trend analysis available.

Si Test Rank 0.2



No trend analysis available.

**Customer Information**  
SILVERADO SITE SERVICES - PME

Attention : Jason Tharp  
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**Equipment Information**

Unit # : 889-001  
Component : TRANSMISSION  
Location :  
Unit Mfr/Model : CATERPILLAR / AP555F  
Unit Serial # : CATAP555HAP500260  
Comp Mfr/Model :  
Comp Serial # :

**Lubricant**

Manufacturer :  
Brand :  
Grade :  
Sample # : 2026/05/25-38  
Lab Tracking # : 59FT - 69122



**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 |
| 05/25-038     | 2026/05/21  | 1               | 3    | 0      | 0    | 0   | 0        | 0      | 0        | 0      | 0        | 0        | 0         | 0         | 0       | 2763          | 976  | 892        | 16        | 22         | 19    | 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 % |
| 2026/05/21         |          |           |           | ~3787             |             |       | N       | 0                | 7         | 12      |                | 7.40           |            | N     |          |

**Results**

2026/05/21 Note the flagged element Potassium.

**Recommendations**

2026/05/21 The presence of Potassium may be contamination from a coolant leak or airborne contaminants. 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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Unit Mfr/Model : CATERPILLAR / AP555F  
Unit Serial # : CATAP555HAP500260  
Comp Mfr/Model :  
Comp Serial # :

**Lubricant**

Manufacturer :  
Brand :  
Grade :  
Sample # : 2026/05/25-38  
Lab Tracking # : 59FT - 69122

**Trend Analysis**

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

**Your Sample Rank**

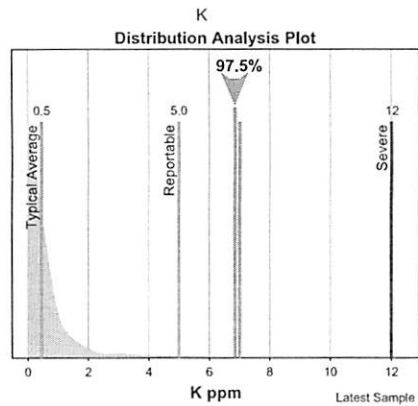


**Normal** 0 - 5      **Elevated** 5 - 8      **High** 8 - 9      **Very High** Over 9      10

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

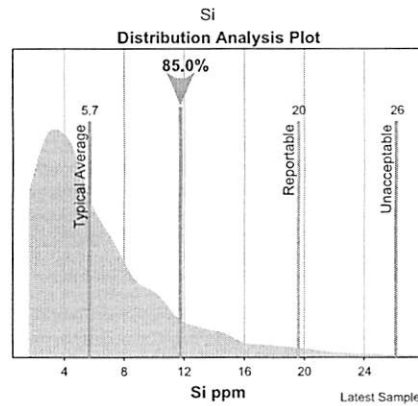
**Top Trends Analysis**

K Test Rank 6.3



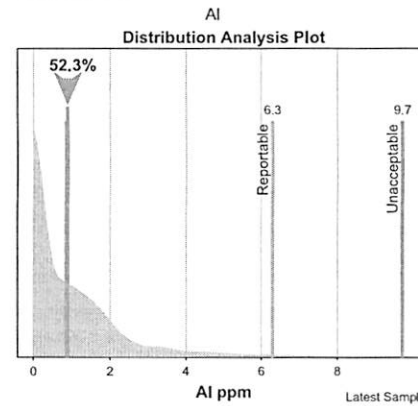
No trend analysis available.

Si Test Rank 4.4



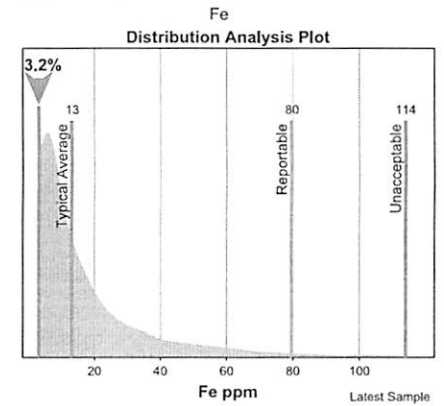
No trend analysis available.

Al Test Rank 0.1



No trend analysis available.

Fe Test Rank 0.1



No trend analysis available.

### Customer Information

SILVERADO SITE SERVICES - PME

Attention : Jason Tharp  
 Phone :  
 Fax :

### Equipment Information

Unit # : 889-001  
 Component : COOLANT, MAIN ENGINE  
 Location :  
 Unit Mfr/Model : CATERPILLAR AP555F  
 Unit Serial # : CATAP555HAP500260  
 Comp Mfr/Model :  
 Comp Serial # :  
 Site Location :

### Coolant

Manufacturer :  
 Brand :  
 Grade :  
 Sample # : 2026/05/25-2  
 Lab Tracking # : 59T0 - 45523



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  | 2026/05/25-2 | N               | -3787         |             |       |

### Physical Tests

| Refractive Index | % Glycol | Freeze Point (°C) | Boiling Point (°C) | ph   | Conductivity (µS/cm) |
|------------------|----------|-------------------|--------------------|------|----------------------|
| 1.3886           | 53.1     | -41               | 107                | 7.29 | 3703                 |

### Appearance Tests

| Sample Date | Color       | Odor | Clarity | Precipitate | Magnetic Precipitate |
|-------------|-------------|------|---------|-------------|----------------------|
|             | Mfg Typical |      |         |             |                      |
| 2026/05/21  | Orange      | GD   | CLR     | TRACE       | N                    |

### Additives

| Nitrites ppm |
|--------------|
|              |
|              |

### Results

2026/05/21 Coolant is acceptable for use.  
 This sample of coolant is clear and bright.  
 Trace levels of precipitates were observed in this sample.

### 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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## Equipment Information

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Component : COOLANT, MAIN ENGINE  
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Unit Mfr/Model : CATERPILLAR AP555F  
Unit Serial # : CATAP555HAP500260  
Comp Mfr/Model :  
Comp Serial # :  
Site Location :

## Coolant

Manufacturer :  
Brand :  
Grade :  
Sample # : 2026/05/25-2  
Lab Tracking # : 59T0 - 45523

# 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