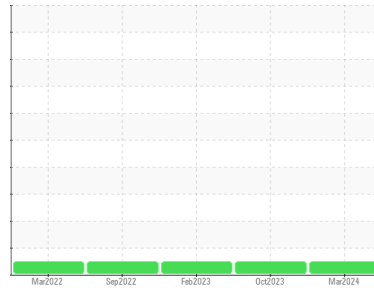




COOLANT REPORT

Area
COLORADO/443
 Machine Id
46.104L [COLORADO^443]
 Component
Coolant
 Fluid
CATERPILLAR ELC (12 GAL)

Sample Rating Trend



NORMAL



DIAGNOSIS

Recommendation

No corrective action is recommended at this time. The fluid is suitable for further service.

Corrosion

All metal levels are normal indicating no corrosion in the cooling system.

Contaminants

There is no indication of any contamination in the coolant.

Coolant Condition

Carboxylate test failed. Glycol and nitrite levels are acceptable. The pH level of this fluid is within the acceptable limits.

| SAMPLE INFORMATION | | method | limit/base | current | history1 | history2 |
|--------------------|-------------|-------------|------------|--------------------|-------------|-------------|
| Sample Number | Client Info | | | WC0883979 | WC0859553 | WC0749922 |
| Sample Date | Client Info | | | 27 Mar 2024 | 09 Oct 2023 | 27 Feb 2023 |
| Machine Age | hrs | Client Info | | 2344 | 1910 | 1346 |
| Oil Age | hrs | Client Info | | 2344 | 1910 | 1346 |
| Oil Changed | Client Info | | | Not Chngd | Not Chngd | Not Chngd |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

| PHYSICAL TEST RESULTS | | method | limit/base | current | history1 | history2 |
|------------------------|-------------|-------------|------------|--------------|----------|----------|
| Glycol Type | FT-IR | | | --- | --- | --- |
| Specific Gravity | *ASTM D1298 | | | 1.078 | 1.078 | 1.077 |
| pH | Scale 0-14 | ASTM D1287 | | 7.92 | 8.00 | 7.97 |
| Nitrites | ppm | AP-053:2009 | | 748 | 788 | 372 |
| Reserve Alkalinity | Scale 0-20 | *ASTM D1121 | | --- | --- | --- |
| Percentage Glycol | % | ASTM D3321 | | 58.3 | 58.2 | 57.7 |
| Freezing Point | °F | ASTM D3321 | | -54 | -54 | -52 |
| Total Dissolved Solids | | | | 350.0 | 385.5 | 417.5 |
| Carboxylate | | | | fail | pass | pass |

| CORROSION INHIBITORS | | method | limit/base | current | history1 | history2 |
|----------------------|-----|------------|------------|------------|----------|----------|
| Silicon | ppm | ASTM D6130 | 0 | 39 | 19 | 65 |
| Phosphorus | ppm | ASTM D6130 | 0 | 78 | 55 | 143 |
| Boron | ppm | ASTM D6130 | 0 | 0 | 0 | 4 |
| Molybdenum | ppm | ASTM D6130 | 950 | 783 | 745 | 1134 |

| CORROSION | | method | limit/base | current | history1 | history2 |
|-----------|-----|------------|------------|--------------|----------|----------|
| Iron | ppm | ASTM D6130 | >15 | 0 | 0 | <1 |
| Aluminum | ppm | ASTM D6130 | >10 | 1 | <1 | <1 |
| Copper | ppm | ASTM D6130 | >10 | 2 | 0 | 3 |
| Lead | ppm | ASTM D6130 | >10 | <1 | 0 | <1 |
| Tin | ppm | ASTM D6130 | >10 | <1 | 0 | <1 |
| Zinc | ppm | ASTM D6130 | | 0 | 0 | <1 |

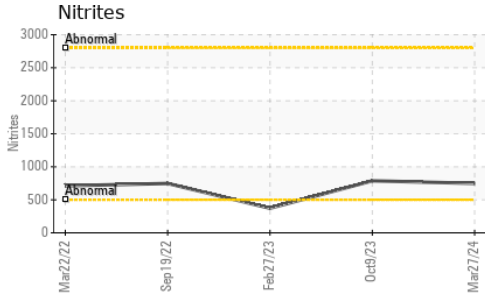
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|--------------|-----|------------|------------|----------|----------|----------|
| Chlorine | ppm | ASTM D6130 | | 8 | 0 | 33 |

| CARRIER SALTS | | method | limit/base | current | history1 | history2 |
|---------------|-----|------------|------------|-------------|----------|----------|
| Sodium | ppm | ASTM D6130 | | 4574 | 4195 | 5231 |
| Potassium | ppm | ASTM D6130 | | 403 | 318 | 830 |

| SCALE POTENTIAL | | method | limit/base | current | history1 | history2 |
|-----------------|-----|------------|------------|--------------|----------|----------|
| Calcium | ppm | ASTM D6130 | | 0 | <1 | 1 |
| Magnesium | ppm | ASTM D6130 | | <1 | <1 | <1 |

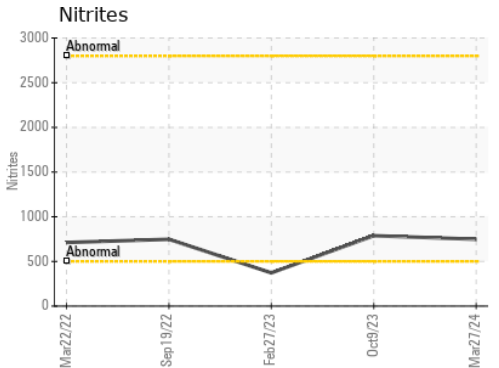
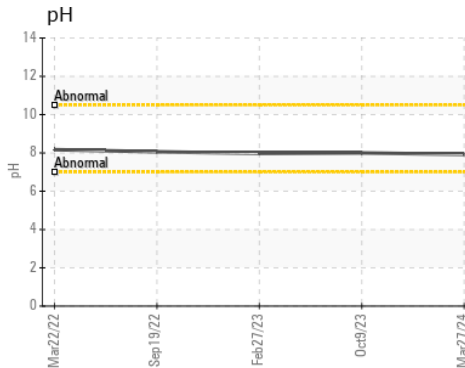
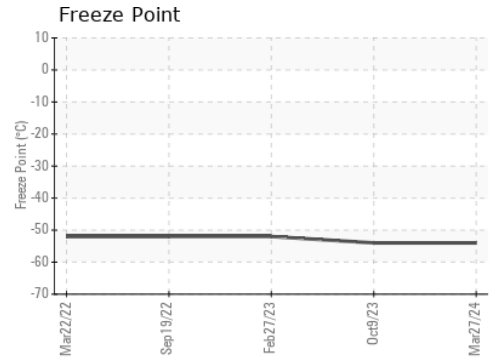
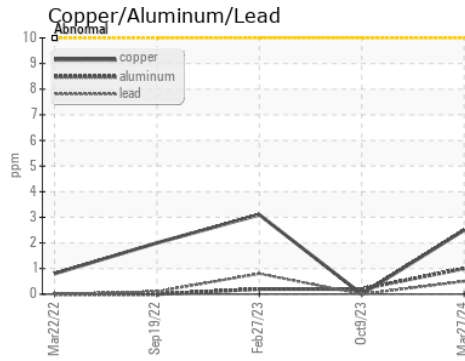
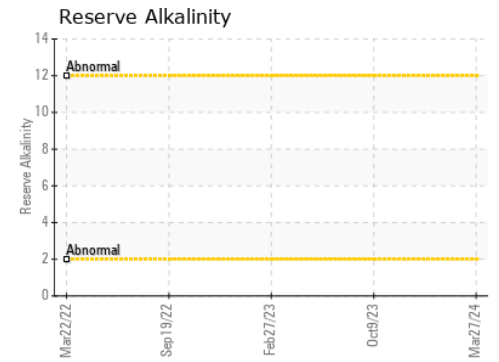
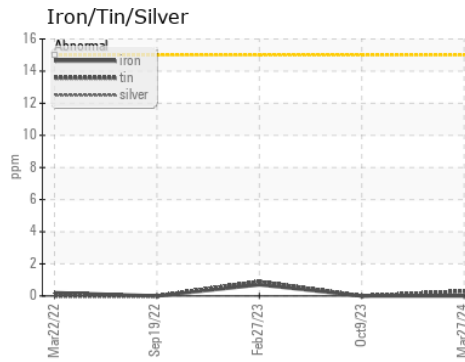


COOLANT REPORT



| VISUAL | method | limit/base | current | history1 | history2 |
|--------------------|---------|------------|---------|----------|----------|
| Coolant Color | *Visual | | Red | Red | Red |
| Coolant Appearance | *Visual | Clear | normal | normal | normal |
| Color | | | | | |
| Bottom | | | | | |

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0883979 **Received** : 08 Apr 2024
Lab Number : 06142687 **Tested** : 11 Apr 2024
Unique Number : 10967495 **Diagnosed** : 11 Apr 2024 - Jonathan Hester
Test Package : COOL- (Additional Tests: BoilingPoint, COOL, GlycolType, ICP)

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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