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|-------------------|-----------------|
| CORROSION | NORMAL |
| CONTAMINANTS | ABNORMAL |
| COOLANT CONDITION | NORMAL |

Machine Id
F55062
 Component
Coolant
 Fluid
EXTENDED LIFE COOLANT (--- GAL)

RECOMMENDATION

Recommend using only distilled water when diluting straight coolant. Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | PC0083729 | PC0056550 | PC0065114 |
| Sample Date | | Client Info | | 15 May 2024 | 24 Jan 2023 | 28 Jul 2022 |
| Machine Age | hrs | Client Info | | 1774 | 2540 | 0 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | N/A | N/A | N/A |
| Sample Status | | | | ABNORMAL | ABNORMAL | ABNORMAL |

CORROSION

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

| | | | | | | |
|----------|-----|---------------|-----|--------------|---|---|
| Iron | ppm | ASTM D5185(m) | >15 | 2 | 1 | 1 |
| Aluminum | ppm | ASTM D5185(m) | >10 | 1 | 3 | 2 |
| Copper | ppm | ASTM D5185(m) | >10 | <1 | 2 | 2 |
| Lead | ppm | ASTM D5185(m) | >10 | 0 | 1 | 0 |
| Tin | ppm | ASTM D5185(m) | >10 | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185(m) | >10 | 1 | 0 | 0 |
| Zinc | ppm | ASTM D5185(m) | >10 | 8 | 4 | 4 |

CONTAMINANTS

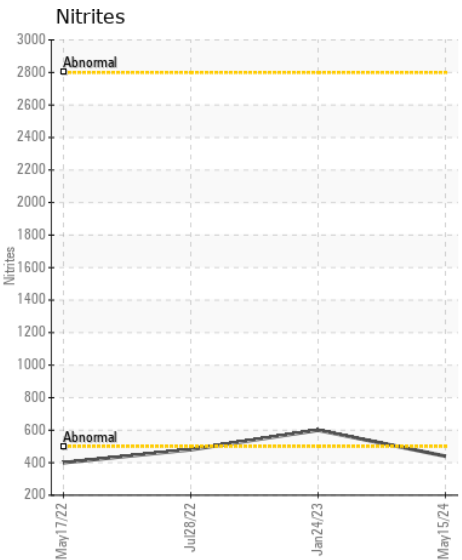
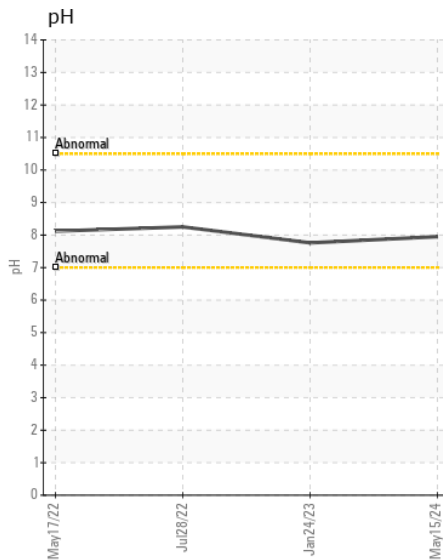
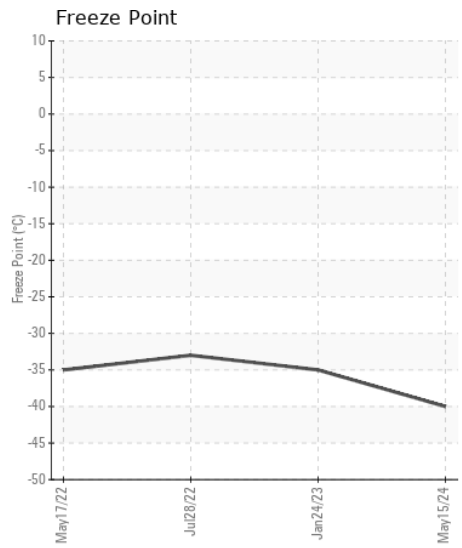
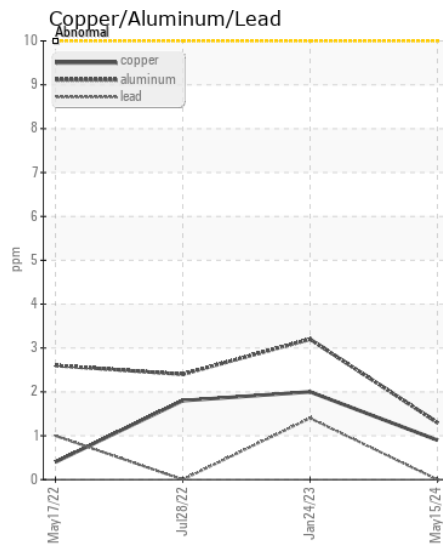
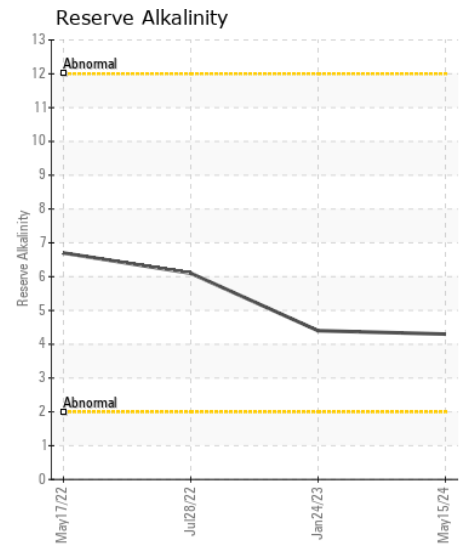
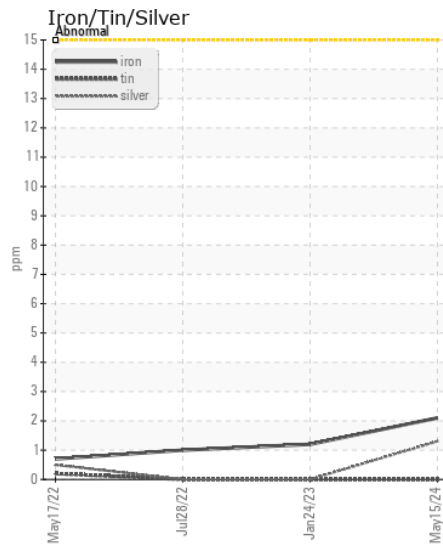
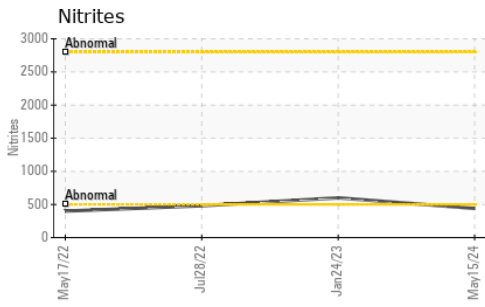
Hardness is elevated. Elevated hardness can allow scale formation that will reduce cooling system effectiveness.

| | | | | | | |
|--------------------|--------|---------------|-------|--------------|-------|-------|
| Calcium | ppm | ASTM D5185(m) | >100 | 24 | 22 | 21 |
| Magnesium | ppm | ASTM D5185(m) | >40 | 6 | 8 | 7 |
| Appearance | scalar | Visual* | NORML | NORML | NORML | NORML |
| Odor | scalar | Visual* | NORML | NORML | NORML | NORML |
| Coolant Appearance | | Visual* | Clear | Clear | Clear | Clear |

COOLANT CONDITION

The nitrite level is acceptable. The pH level of this fluid is within the acceptable limits. The reserve alkalinity of this fluid is acceptable.

| | | | | | | |
|--------------------|------------|-----------------|----------|---------------|-------|-------|
| Boiling Point | °C | WC Method* | | 108 | --- | --- |
| Specific Gravity | | ASTM D1298* | | 1.070 | 1.067 | 1.067 |
| pH | Scale 0-14 | ASTM D1287* | 9.0 | 7.95 | 7.76 | 8.25 |
| Nitrites | ppm | Alcan Test Kit* | | 440 | 600 | 480 |
| Reserve Alkalinity | Scale 0-20 | ASTM D1121* | | 4.3 | 4.4 | 6.1 |
| Percentage Glycol | % | ASTM D3321* | 50 | 52.3 | 50.0 | 49.3 |
| Freezing Point | °C | ASTM D3321* | -40 | -40 | -35 | -33 |
| Carboxylate | | | | --- | --- | --- |
| Silicon | ppm | ASTM D5185(m) | | 40 | 27 | 27 |
| Phosphorus | ppm | ASTM D5185(m) | | 18 | 12 | 12 |
| Boron | ppm | ASTM D5185(m) | | 49 | 9 | 32 |
| Molybdenum | ppm | ASTM D5185(m) | | 357 | 365 | 348 |
| Sodium | ppm | ASTM D5185(m) | | 3099 | 2076 | 1938 |
| Potassium | ppm | ASTM D5185(m) | | 3423 | 2688 | 2429 |
| Coolant Color | | Visual* | Orange/R | Orange | Red | Red |



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0083729
Lab Number : 02636783
Unique Number : 5785945
Test Package : COOL (Additional Tests: GlycolType)
Received : 21 May 2024
Tested : 22 May 2024
Diagnosed : 23 May 2024 - Kevin Marson

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To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.

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