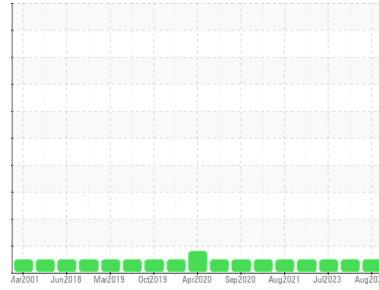


COOLANT REPORT

Sample Rating Trend

NORMAL



Area
Cranes [450185704]
Machine Id
Crane - Fwd Engine Coolant (62 L Tank) (S/N Sample Tag: MA-04003)
Component
Coolant
Fluid
EXTENDED LIFE COOLANT (62 LTR)

DIAGNOSIS

Recommendation

The fluid is suitable for further service. Resample at the next service interval to monitor.

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

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

| SAMPLE INFORMATION | | method | limit/base | current | history1 | history2 |
|--------------------|-------------|-------------|------------|--------------------|-------------|-------------|
| Sample Number | Client Info | | | PC | CU0052586 | PC0052124 |
| Sample Date | Client Info | | | 13 Aug 2023 | 12 Aug 2023 | 05 Jul 2023 |
| Machine Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | Client Info | | | N/A | N/A | N/A |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

| PHYSICAL TEST RESULTS | | method | limit/base | current | history1 | history2 |
|-----------------------|-------------|-----------------|------------|--------------|----------|----------|
| Specific Gravity | ASTM D1298* | | | 1.068 | 1.065 | 1.068 |
| pH | Scale 0-14 | ASTM D1287* | 9.0 | 8.10 | 8.32 | 8.55 |
| Nitrites | ppm | Alcan Test Kit* | | 680 | 680 | 560 |
| Reserve Alkalinity | Scale 0-20 | ASTM D1121* | | 1.9 | 2.0 | 3.6 |
| Percentage Glycol | % | ASTM D3321* | 50 | 50.1 | 48.6 | 50.2 |
| Freezing Point | °C | ASTM D3321* | -40 | -35 | -31 | -35 |
| Carboxylate | | | | --- | --- | --- |

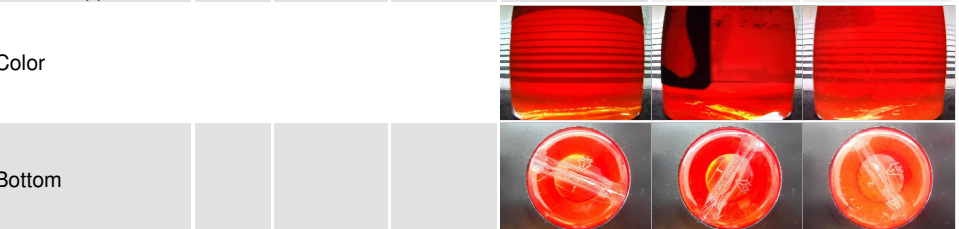
| CORROSION INHIBITORS | | method | limit/base | current | history1 | history2 |
|----------------------|-----|---------------|------------|------------|----------|----------|
| Silicon | ppm | ASTM D5185(m) | | 3 | 3 | 3 |
| Phosphorus | ppm | ASTM D5185(m) | | 5 | 7 | 10 |
| Boron | ppm | ASTM D5185(m) | | 10 | 4 | 15 |
| Molybdenum | ppm | ASTM D5185(m) | | 170 | 180 | 192 |

| CORROSION | | method | limit/base | current | history1 | history2 |
|-----------|-----|---------------|------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185(m) | >15 | 0 | 0 | 2 |
| Aluminum | ppm | ASTM D5185(m) | >10 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185(m) | >10 | 0 | 0 | 3 |
| Lead | ppm | ASTM D5185(m) | >10 | 0 | 0 | 7 |
| Tin | ppm | ASTM D5185(m) | >10 | 0 | 0 | 2 |
| Silver | ppm | ASTM D5185(m) | >10 | <1 | <1 | 0 |
| Zinc | ppm | ASTM D5185(m) | | 0 | 1 | 0 |

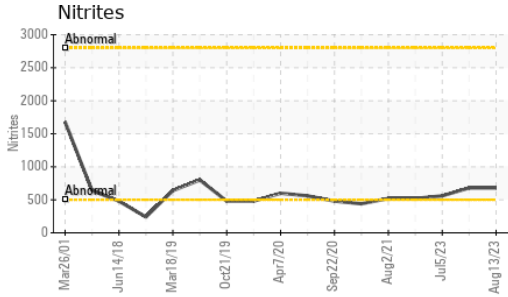
| CARRIER SALTS | | method | limit/base | current | history1 | history2 |
|---------------|-----|---------------|------------|-------------|----------|----------|
| Sodium | ppm | ASTM D5185(m) | | 5900 | 5813 | 2846 |
| Potassium | ppm | ASTM D5185(m) | | 7570 | 7710 | 1990 |

| SCALE POTENTIAL | | method | limit/base | current | history1 | history2 |
|-----------------|------------|---------------|------------|-----------|----------|----------|
| Calcium | ppm | ASTM D5185(m) | >100 | 8 | 11 | 8 |
| Magnesium | ppm | ASTM D5185(m) | >40 | 3 | 6 | 4 |
| Hardness | mg/L CaCO3 | In-house* | <75 | 31 | 50 | 38 |

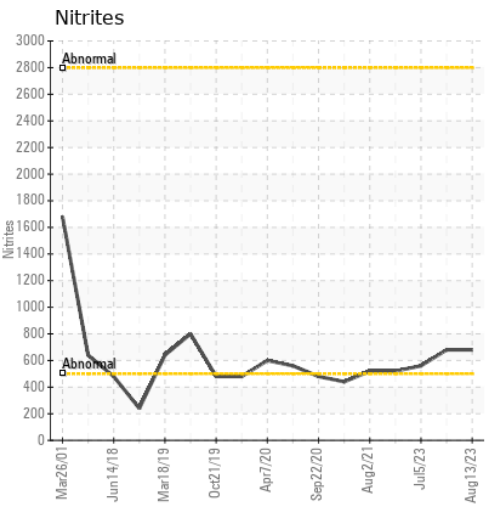
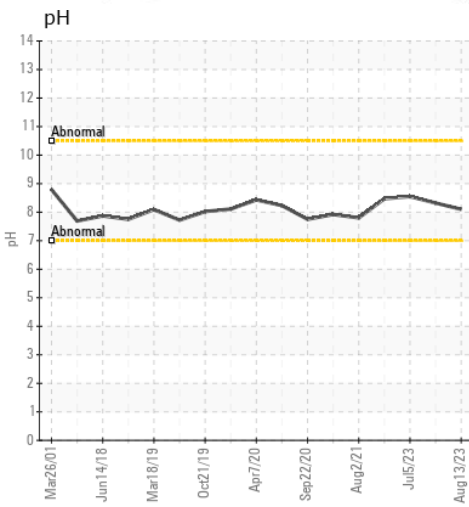
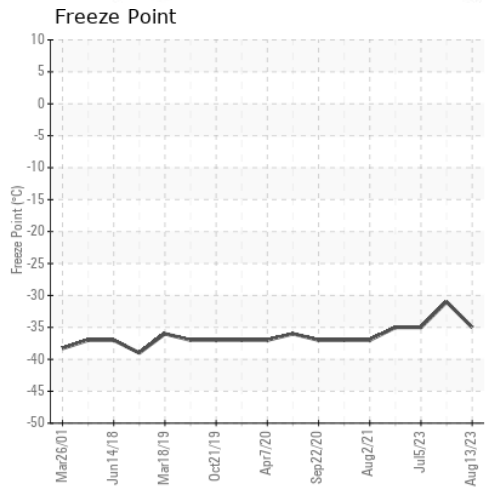
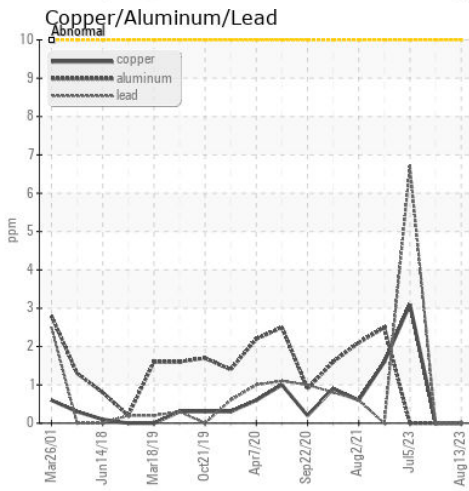
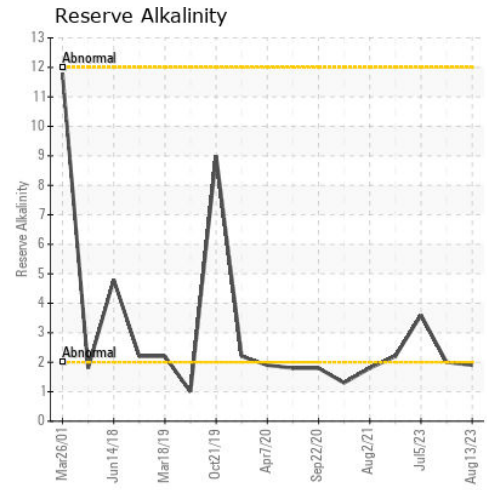
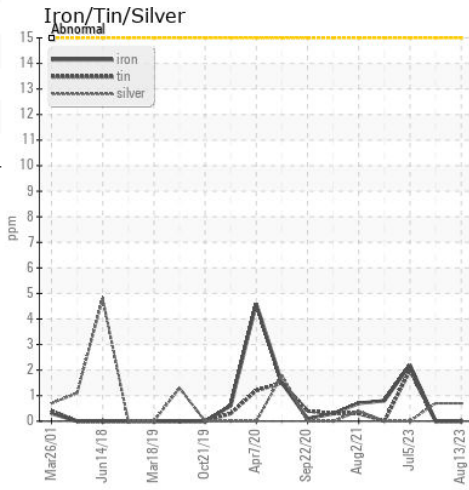
| VISUAL | | method | limit/base | current | history1 | history2 |
|--------------------|---------|----------|------------|---------------|----------|----------|
| Coolant Color | Visual* | Orange/R | | Orange | Orange | Red |
| Coolant Appearance | Visual* | Clear | | Clear | Clear | Clear |



COOLANT REPORT



GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC **Received** : 13 Sep 2023
Lab Number : 02582341 **Diagnosed** : 14 Sep 2023
Unique Number : 5643406 **Diagnostician** : Kevin Marson
Test Package : COOL

Suncor - Terra Nova Projects
 Scotia Centre, 235 Water Street
 St. John's, NL
 CA A1C 1B6
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 joshhynes@suncor.com
 T: (709)778-3575
 F: (709)724-2835

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.