



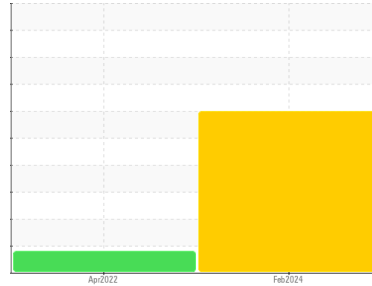
COOLANT REPORT

Sample Rating Trend

WEAR



Area
THUNDER SPIRIT [200005313]
 Machine Id
37WEA84033 - GEN (S/N 72802187543)
 Component
Coolant
 Fluid
CONVENTIONAL COOLANT (--- QTS)



DIAGNOSIS

▲ Recommendation

We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

▲ Corrosion

Metal levels indicate corrosion in the cooling system.

Contaminants

There is no indication of any contamination in the coolant.

Coolant Condition

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 | | NX015539 | NX004477 | --- |
| Sample Date | Client Info | | 28 Feb 2024 | 08 Apr 2022 | --- |
| Machine Age | hrs | Client Info | 0 | 0 | --- |
| Oil Age | hrs | Client Info | 0 | 0 | --- |
| Oil Changed | Client Info | | N/A | N/A | --- |
| Sample Status | | | SEVERE | ABNORMAL | --- |

PHYSICAL TEST RESULTS

| | method | limit/base | current | history1 | history2 |
|------------------------|-------------|-------------|--------------|----------|----------|
| Glycol Type | FT-IR | | --- | --- | --- |
| Specific Gravity | *ASTM D1298 | | 1.076 | 1.076 | --- |
| pH | Scale 0-14 | ASTM D1287 | 8.34 | 8.26 | --- |
| Nitrites | ppm | AP-053:2009 | 748 | 412 | --- |
| Reserve Alkalinity | Scale 0-20 | *ASTM D1121 | --- | --- | --- |
| Percentage Glycol | % | ASTM D3321 | 56.4 | 56.5 | --- |
| Freezing Point | °F | ASTM D3321 | -50 | -50 | --- |
| Total Dissolved Solids | | | 259.5 | 289.0 | --- |
| Carboxylate | | | n/a | n/a | --- |

CORROSION INHIBITORS

| | method | limit/base | current | history1 | history2 |
|------------|--------|------------|-------------|----------|----------|
| Silicon | ppm | ASTM D6130 | 67 | 94 | --- |
| Phosphorus | ppm | ASTM D6130 | 1093 | 841 | --- |
| Boron | ppm | ASTM D6130 | 182 | 328 | --- |
| Molybdenum | ppm | ASTM D6130 | 135 | 270 | --- |

CORROSION

| | method | limit/base | current | history1 | history2 |
|----------|--------|----------------|-------------|----------|----------|
| Iron | ppm | ASTM D6130 >15 | ▲ 36 | ▲ 65 | --- |
| Aluminum | ppm | ASTM D6130 >10 | 2 | 1 | --- |
| Copper | ppm | ASTM D6130 >10 | 1 | <1 | --- |
| Lead | ppm | ASTM D6130 >10 | 1 | 0 | --- |
| Tin | ppm | ASTM D6130 >10 | 0 | 0 | --- |
| Zinc | ppm | ASTM D6130 | 5 | 7 | --- |

CONTAMINANTS

| | method | limit/base | current | history1 | history2 |
|----------|--------|------------|-----------|----------|----------|
| Chlorine | ppm | ASTM D6130 | 25 | 0 | --- |

CARRIER SALTS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|------------|-------------|----------|----------|
| Sodium | ppm | ASTM D6130 | 522 | 548 | --- |
| Potassium | ppm | ASTM D6130 | 3141 | 1999 | --- |

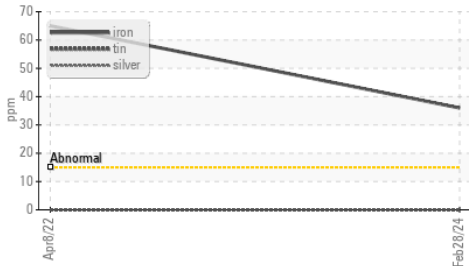
SCALE POTENTIAL

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

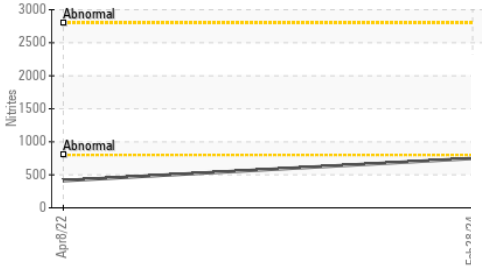


COOLANT REPORT

▲ Iron/Tin/Silver



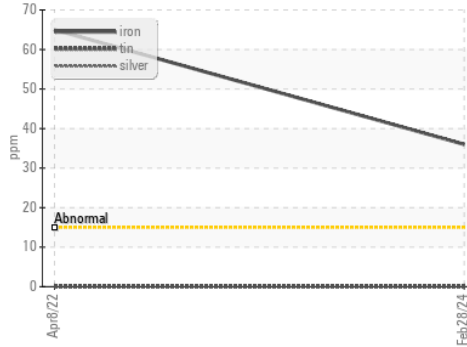
Nitrites



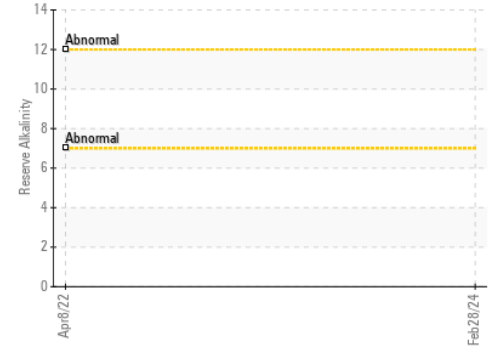
| VISUAL | method | limit/base | current | history1 | history2 |
|--------------------|---------|------------|---------------|----------|----------|
| Coolant Color | *Visual | | Pink | Orange | --- |
| Coolant Appearance | *Visual | Clear | normal | normal | --- |
| Color | | | | | no image |
| Bottom | | | | | no image |

GRAPHS

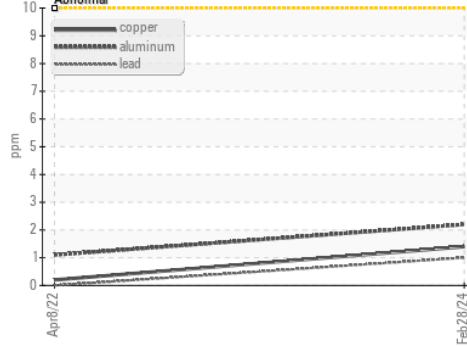
▲ Iron/Tin/Silver



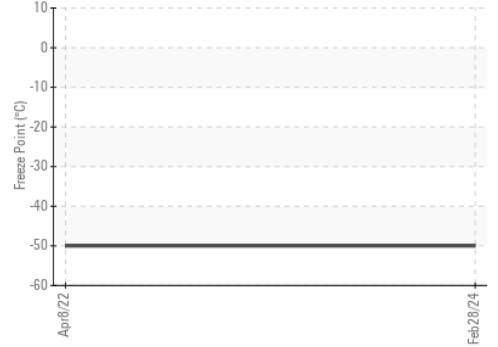
Reserve Alkalinity



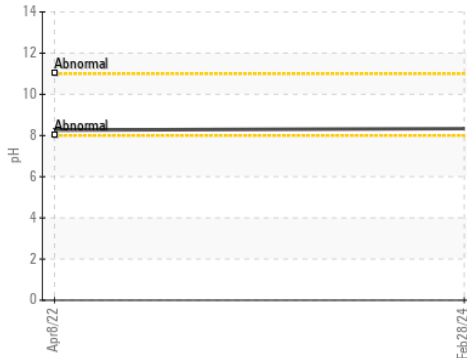
Copper/Aluminum/Lead



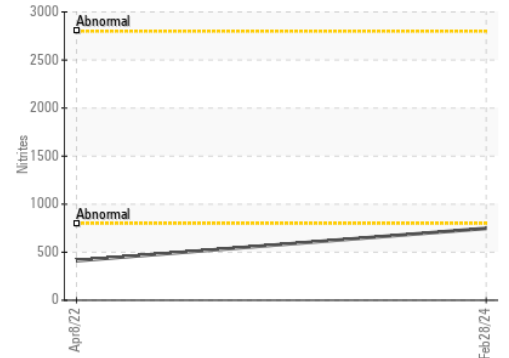
Freeze Point



pH



Nitrites



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : NX015539 **Received** : 19 Mar 2024
Lab Number : **06123296** **Tested** : 21 Mar 2024
Unique Number : 10937447 **Diagnosed** : 22 Mar 2024 - Jonathan Hester
Test Package : COOL- (Additional Tests: BoilingPoint, COOL, GlycolType, ICP)

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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)