



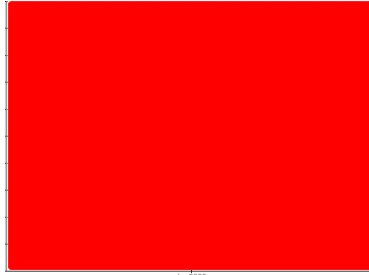
COOLANT REPORT

Sample Rating Trend

WEAR



Area
AURORA [200006927]
 Machine Id
25WEA87229 - G06 - V (S/N A5E39737038A)
 Component
Coolant
 Fluid
ISENTHAL VARIDOS 45 (--- LTR)



DIAGNOSIS

Recommendation

We recommend drain/flush system, and refill with 50/50 antifreeze water mixture. We advise that you replenish the supplemental coolant additives (SCAs) and add per manufacturer's recommendations.

Corrosion

The iron level is severe. The aluminum level is severe.

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 | | NX05981600 | --- | --- |
| Sample Date | Client Info | | 23 Jun 2023 | --- | --- |
| Machine Age | hrs | Client Info | 20474 | --- | --- |
| Oil Age | hrs | Client Info | 0 | --- | --- |
| Oil Changed | Client Info | | N/A | --- | --- |
| Sample Status | | | SEVERE | --- | --- |

PHYSICAL TEST RESULTS

| | method | limit/base | current | history1 | history2 |
|------------------------|---------------------------|------------|--------------|----------|----------|
| Specific Gravity | *ASTM D1298 | | 1.070 | --- | --- |
| pH | Scale 0-14 ASTM D1287 | 8.5 | 8.09 | --- | --- |
| Nitrites | ppm AP-053:2009 | 260 | 412 | --- | --- |
| Reserve Alkalinity | Scale 0-20 *ASTM D1121 | | --- | --- | --- |
| Percentage Glycol | % ASTM D3321 | 45 | 52.0 | --- | --- |
| Freezing Point | °F ASTM D3321 | -24 | -40 | --- | --- |
| Total Dissolved Solids | | | 168.5 | --- | --- |
| Carboxylate | | | n/a | --- | --- |

CORROSION INHIBITORS

| | method | limit/base | current | history1 | history2 |
|------------|-------------------|------------|--------------|----------|----------|
| Silicon | ppm ASTM D6130 | 25 | <1 | --- | --- |
| Phosphorus | ppm ASTM D6130 | 140 | 105 | --- | --- |
| Boron | ppm ASTM D6130 | 0 | 0 | --- | --- |
| Molybdenum | ppm ASTM D6130 | 1075 | 690 | --- | --- |

CORROSION

| | method | limit/base | current | history1 | history2 |
|----------|-------------------|------------|--------------|----------|----------|
| Iron | ppm ASTM D6130 | >15 | 1200 | --- | --- |
| Aluminum | ppm ASTM D6130 | >10 | 269 | --- | --- |
| Copper | ppm ASTM D6130 | >10 | 0 | --- | --- |
| Lead | ppm ASTM D6130 | >10 | <1 | --- | --- |
| Tin | ppm ASTM D6130 | >10 | 0 | --- | --- |
| Zinc | ppm ASTM D6130 | | 43 | --- | --- |

CONTAMINANTS

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

CARRIER SALTS

| | method | limit/base | current | history1 | history2 |
|-----------|-------------------|------------|------------|----------|----------|
| Sodium | ppm ASTM D6130 | 1075 | 657 | --- | --- |
| Potassium | ppm ASTM D6130 | 5 | 803 | --- | --- |

SCALE POTENTIAL

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

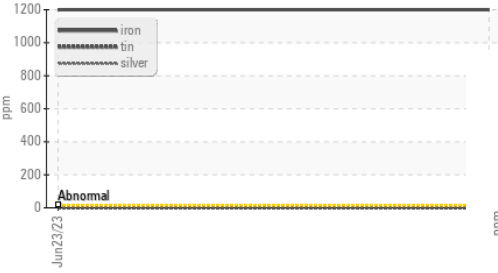


COOLANT REPORT

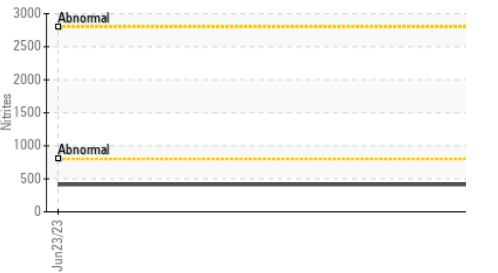
Copper/Aluminum/Lead

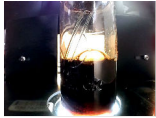



Iron/Tin/Silver



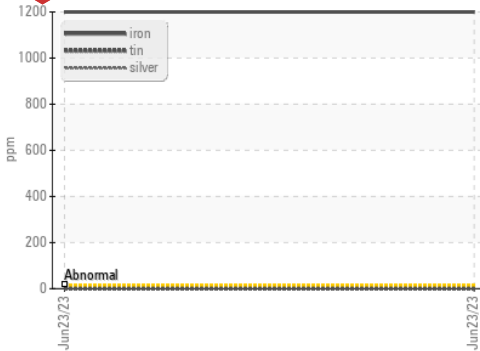
Nitrites



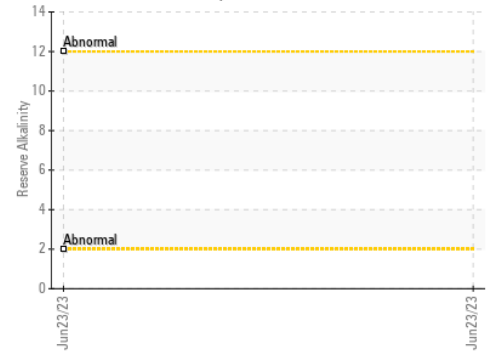
| VISUAL | method | limit/base | current | history1 | history2 |
|--------------------|---------|------------|---|----------|----------|
| Coolant Color | *Visual | DkYlw | Orange | --- | --- |
| Coolant Appearance | *Visual | Clear | normal | --- | --- |
| Color | | |  | no image | no image |
| Bottom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

GRAPHS

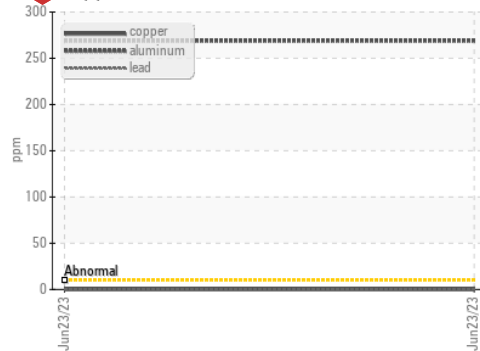
Iron/Tin/Silver



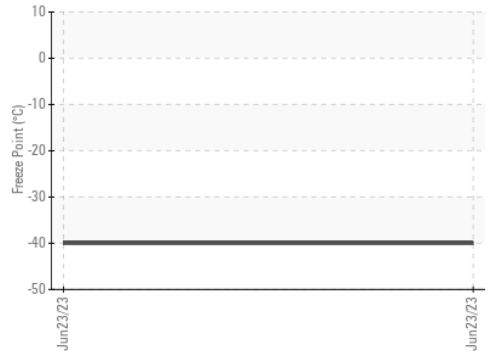
Reserve Alkalinity



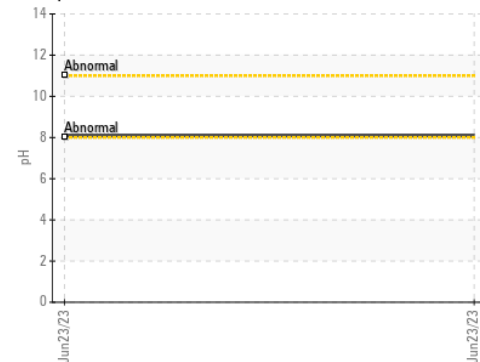
Copper/Aluminum/Lead



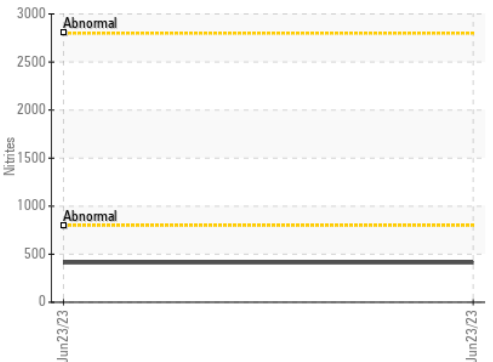
Freeze Point



pH



Nitrites



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : NX05981600 **Received** : 17 Oct 2023
Lab Number : **05981600** **Diagnosed** : 30 Oct 2023
Unique Number : 10698895 **Diagnostician** : Jonathan Hester
Test Package : COOL- (Additional Tests: COOL, 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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