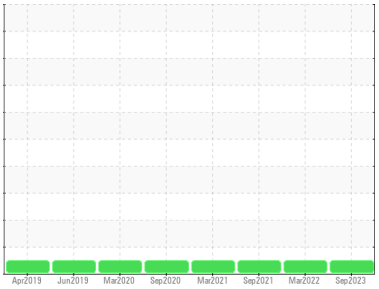
# COOLANT REPORT

Area
**OKLAHOMA/102/EG - DOZER**
Machine Id
**38.84 [OKLAHOMA^102^EG - DOZER]**
Component
**Coolant**
Fluid
**CAT EXTENDED LIFE COOLANT (ELC) (--- 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. The pH level of this fluid is within the acceptable limits. The glycol level is acceptable.

| SAMPLE INFORMATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | **WC0769745** | WC0670167 | WC0590291 |
| Sample Date | | Client Info | | **20 Sep 2023** | 03 Mar 2022 | 10 Sep 2021 |
| Machine Age | hrs | Client Info | | **9600** | 7658 | 6912 |
| Oil Age | hrs | Client Info | | **3756** | 1000 | 1000 |
| Oil Changed | | Client Info | | **Not Changd** | Not Changd | Not Changd |
| Sample Status | | | | **NORMAL** | NORMAL | NORMAL |

| PHYSICAL TEST RESULTS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Specific Gravity | | *ASTM D1298 | | **1.067** | 1.067 | --- |
| pH | Scale 0-14 | ASTM D1287 | | **8.30** | 8.04 | 7.24 |
| Nitrites | ppm | AP-053:2009 | | **712** | 824 | 488 |
| Reserve Alkalinity | Scale 0-20 | *ASTM D1121 | | **---** | --- | --- |
| Percentage Glycol | % | ASTM D3321 | | **49.4** | 49.9 | 52 |
| Freezing Point | °F | ASTM D3321 | | **-33** | -33 | -42 |
| Total Dissolved Solids | | | | **351.5** | 368.5 | 400.0 |
| Carboxylate | | | | **fail** | fail | fail |

| CORROSION INHIBITORS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Silicon | ppm | ASTM D6130 | 0 | **8** | 18 | 40 |
| Phosphorus | ppm | ASTM D6130 | 0 | **0** | 0 | <1 |
| Boron | ppm | ASTM D6130 | 0 | **3** | 0 | 0 |
| Molybdenum | ppm | ASTM D6130 | 950 | **923** | 1164 | 1141 |

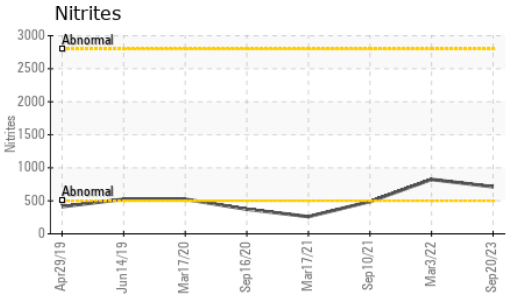
| CORROSION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Iron | ppm | ASTM D6130 | >15 | **0** | 0 | <1 |
| Aluminum | ppm | ASTM D6130 | >10 | **0** | <1 | 4 |
| Copper | ppm | ASTM D6130 | >10 | **<1** | <1 | 2 |
| Lead | ppm | ASTM D6130 | >10 | **0** | 0 | <1 |
| Tin | ppm | ASTM D6130 | >10 | **0** | 0 | <1 |
| Zinc | ppm | ASTM D6130 | | **0** | 0 | <1 |

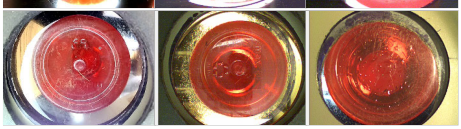
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Chlorine | ppm | ASTM D6130 | | **12** | 3 | 70 |

| CARRIER SALTS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Sodium | ppm | ASTM D6130 | | **5257** | 3084 | 3325 |
| Potassium | ppm | ASTM D6130 | | **33** | 62 | 221 |

| SCALE POTENTIAL | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Calcium | ppm | ASTM D6130 | | **<1** | 1 | 3 |
| Magnesium | ppm | ASTM D6130 | | **0** | <1 | 2 |

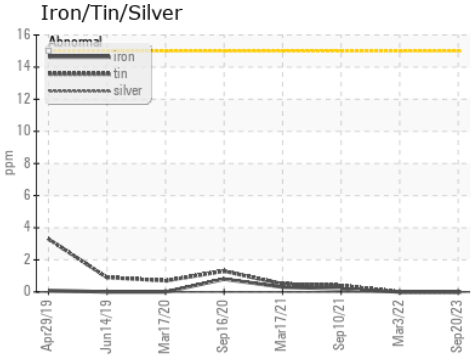
# COOLANT REPORT



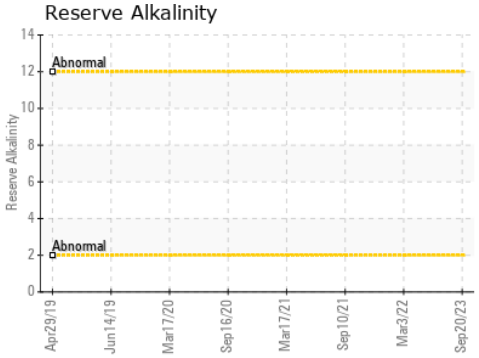

| VISUAL | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Coolant Color | | *Visual | | **Red** | Red | Red |
| Coolant Appearance | | *Visual | Clear | **normal** | normal | normal |
| Color | | | |  | | |
| Bottom | | | |  | | |

## GRAPHS

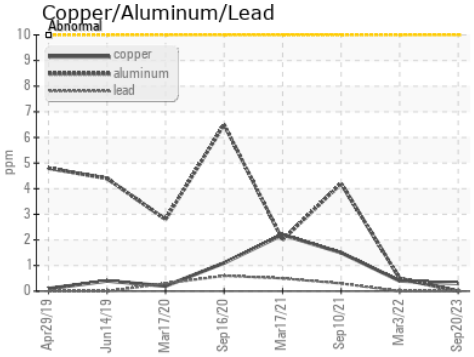
Iron/Tin/Silver



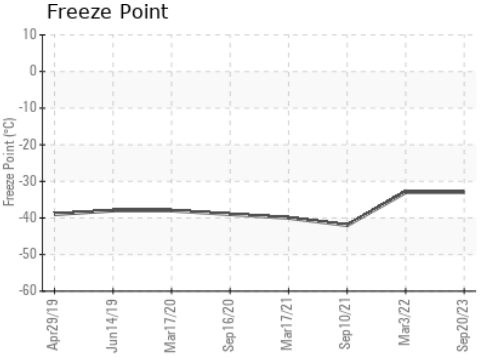

Reserve Alkalinity



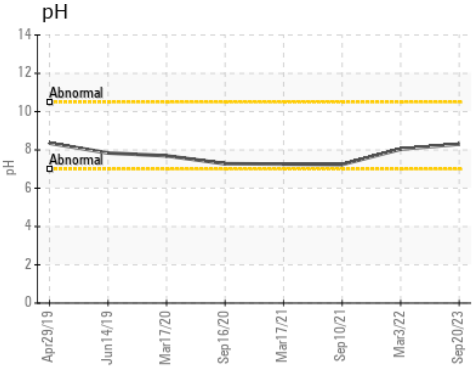

Copper/Aluminum/Lead



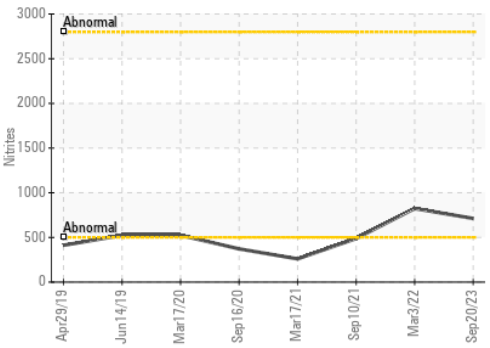

Freeze Point




pH




Nitrites




**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : WC0769745 **Received** : 27 Sep 2023
**Lab Number** : 05962627 **Diagnosed** : 03 Oct 2023
**Unique Number** : 10669178 **Diagnostician** : Jonathan Hester
**Test Package** : COOL- ( Additional Tests: COOL, ICP )

Certificate L2367

*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)*

**SHERWOOD CONSTRUCTION CO INC**
3219 WEST MAY ST
WICHITA, KS
US 67213
Contact: DOUG KING
doug.king@sherwood.net
T: (316)617-3161
F: x: