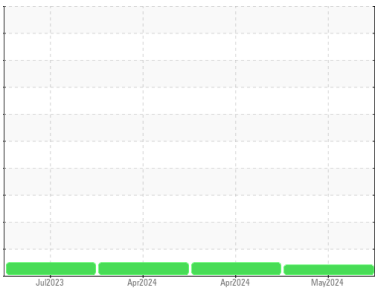
# OIL ANALYSIS REPORT

Sample Rating Trend




**VIS DEBRIS**

Machine Id
**M120**
Component
**Top Gearbox**
Fluid
**GEAR OIL SAE 80W90 (--- GAL)**

## DIAGNOSIS

**Recommendation**
No corrective action is recommended at this time.
Resample at the next service interval to monitor.

**Wear**
All component wear rates are normal.

**Contamination**
Moderate concentration of visible dirt/debris present in the oil.

**Fluid Condition**
The condition of the oil is acceptable for the time in service.

| SAMPLE INFORMATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | **WC0941222** | WC0858468 | WC0858467 |
| Sample Date | | Client Info | | **20 May 2024** | 15 Apr 2024 | 14 Apr 2024 |
| Machine Age | hrs | Client Info | | **25630** | 0 | 0 |
| Oil Age | hrs | Client Info | | **0** | 0 | 0 |
| Oil Changed | | Client Info | | **N/A** | N/A | N/A |
| Sample Status | | | | **ABNORMAL** | NORMAL | NORMAL |

| CONTAMINATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Water | | WC Method | >0.2 | **NEG** | NEG | NEG |

| WEAR METALS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Iron | ppm | ASTM D5185m | >200 | **14** | 88 | 37 |
| Chromium | ppm | ASTM D5185m | >10 | **0** | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >10 | **0** | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | **0** | 0 | 0 |
| Silver | ppm | ASTM D5185m | | **0** | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >25 | **0** | 2 | 1 |
| Lead | ppm | ASTM D5185m | >50 | **0** | 0 | 0 |
| Copper | ppm | ASTM D5185m | >200 | **<1** | 0 | <1 |
| Tin | ppm | ASTM D5185m | >10 | **<1** | 0 | 0 |
| Vanadium | ppm | ASTM D5185m | | **0** | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | | **0** | 0 | 0 |

| ADDITIVES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Boron | ppm | ASTM D5185m | 400 | **13** | 5 | 5 |
| Barium | ppm | ASTM D5185m | 200 | **0** | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 12 | **0** | 1 | <1 |
| Manganese | ppm | ASTM D5185m | | **<1** | 0 | 0 |
| Magnesium | ppm | ASTM D5185m | 12 | **2** | 13 | 8 |
| Calcium | ppm | ASTM D5185m | 150 | **16** | 66 | 43 |
| Phosphorus | ppm | ASTM D5185m | 1650 | **1393** | 891 | 611 |
| Zinc | ppm | ASTM D5185m | 125 | **160** | 219 | 67 |
| Sulfur | ppm | ASTM D5185m | 22500 | **39398** | 26134 | 20501 |

| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Silicon | ppm | ASTM D5185m | >50 | **3** | 10 | 5 |
| Sodium | ppm | ASTM D5185m | >170 | **2** | 3 | <1 |
| Potassium | ppm | ASTM D5185m | >20 | **<1** | 2 | 2 |

| VISUAL | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| White Metal | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Silt | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Debris | scalar | *Visual | NONE | **MODER** | NONE | NONE |
| Sand/Dirt | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Appearance | scalar | *Visual | NORML | **NORML** | NORML | NORML |
| Odor | scalar | *Visual | NORML | **NORML** | NORML | NORML |
| Emulsified Water | scalar | *Visual | >0.2 | **NEG** | NEG | NEG |
| Free Water | scalar | *Visual | | **NEG** | NEG | NEG |

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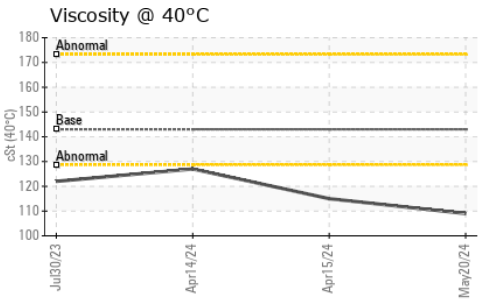
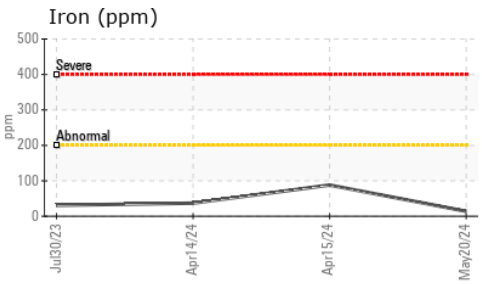
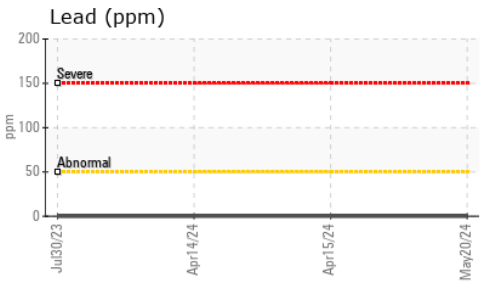


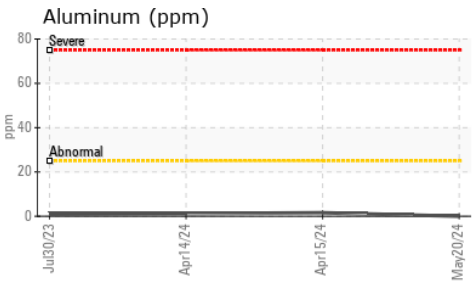

| FLUID PROPERTIES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Visc @ 40°C | cSt | ASTM D445 | 143 | **109** | 115 | 127 |

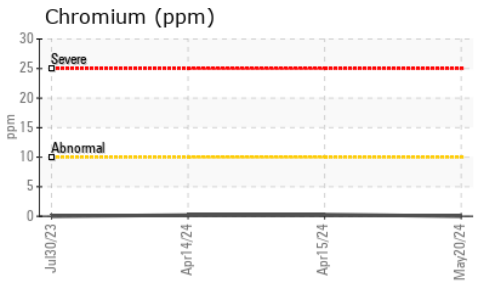
| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|
| Color | | | *no image* | *no image* | *no image* |
| Bottom | | | *no image* | *no image* | *no image* |

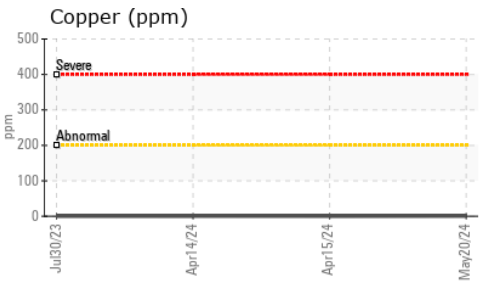
## GRAPHS

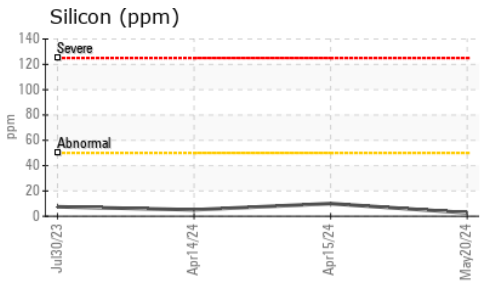


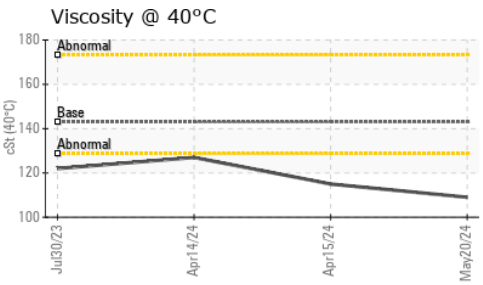



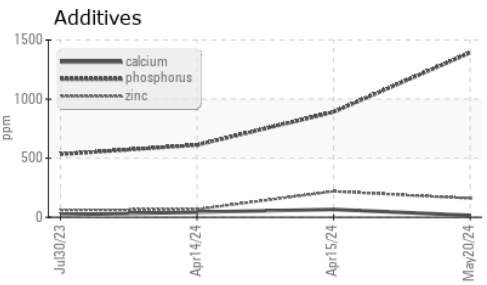




Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : WC0941222
**Lab Number** : 06200603
**Unique Number** : 11062726
**Test Package** : MOB 1

**Received** : 05 Jun 2024
**Tested** : 06 Jun 2024
**Diagnosed** : 07 Jun 2024 - Don Baldridge

*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)*

**INTERSTATE WASTE-NEWARK**
110 EVERGREEN AVE, BAY 3
NEWARK, NJ
US 07114
Contact: Robert Witynski
RWitynski@interstatewaste.com
T:
F: