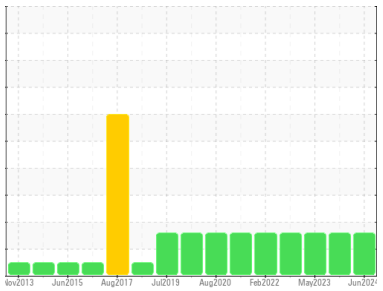
# OIL ANALYSIS REPORT

Sample Rating Trend




**WEAR**

Area
## LINE 6
Machine Id
## [LINE 6] L6 WRAPPER 7 L6 WRAPPER 7
Component
**Gearbox**
Fluid
**{not provided} (--- GAL)**

## DIAGNOSIS

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

**Wear**
The aluminum level is abnormal. All other component wear rates are normal.

**Contamination**
Appearance is milky. There is no indication of any contamination in the oil.

**Fluid Condition**
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

| SAMPLE INFORMATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | **PCA0127087** | PCA0118546 | PCA0096178 |
| Sample Date | | Client Info | | **28 Jun 2024** | 29 Feb 2024 | 19 May 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 | | | | **ABNORMAL** | ABNORMAL | ABNORMAL |

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

| WEAR METALS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| PQ | | ASTM D8184 | | **46** | 44 | 37 |
| Iron | ppm | ASTM D5185m | >200 | **46** | 46 | 42 |
| Chromium | ppm | ASTM D5185m | >15 | **<1** | 2 | 2 |
| Nickel | ppm | ASTM D5185m | >15 | **0** | <1 | <1 |
| Titanium | ppm | ASTM D5185m | | **0** | <1 | <1 |
| Silver | ppm | ASTM D5185m | | **0** | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >25 | ▲ **228** | ▲ 240 | ▲ 213 |
| Lead | ppm | ASTM D5185m | >100 | **0** | 1 | 0 |
| Copper | ppm | ASTM D5185m | >200 | **6** | 7 | 6 |
| Tin | ppm | ASTM D5185m | >25 | **0** | <1 | 1 |
| 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 | | **0** | 0 | 0 |
| Barium | ppm | ASTM D5185m | | **16** | 15 | 15 |
| Molybdenum | ppm | ASTM D5185m | | **0** | 0 | 0 |
| Manganese | ppm | ASTM D5185m | | **<1** | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | | **10** | 8 | 11 |
| Calcium | ppm | ASTM D5185m | | **3850** | 3885 | 4016 |
| Phosphorus | ppm | ASTM D5185m | | **556** | 548 | 596 |
| Zinc | ppm | ASTM D5185m | | **1587** | 1698 | 1773 |
| Sulfur | ppm | ASTM D5185m | | **1820** | 1643 | 1902 |

| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Silicon | ppm | ASTM D5185m | >50 | **27** | 29 | 27 |
| Sodium | ppm | ASTM D5185m | | **5** | 2 | 4 |
| Potassium | ppm | ASTM D5185m | >20 | **<1** | 3 | <1 |

| FLUID DEGRADATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | **0.14** | 0.15 | 0.14 |

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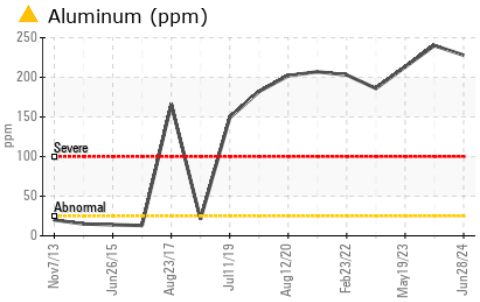
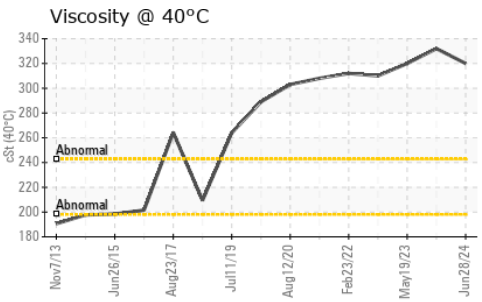
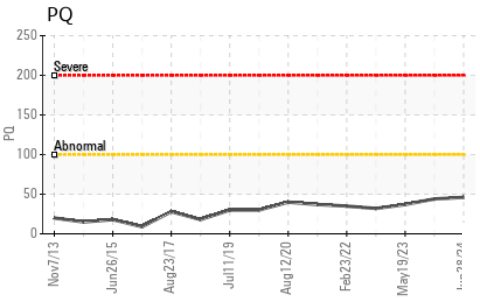
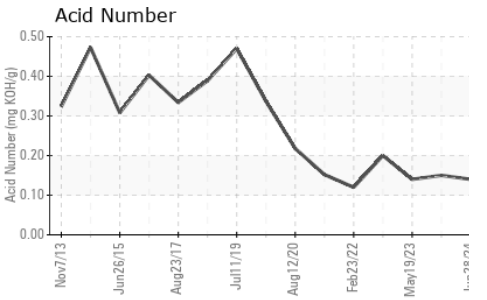


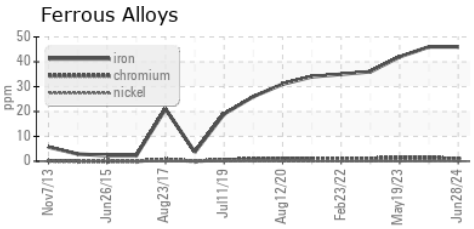



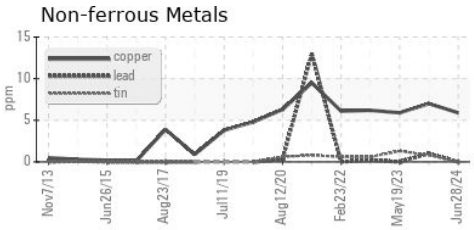

| VISUAL | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| White Metal | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | **NONE** | NONE | NONE |
|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

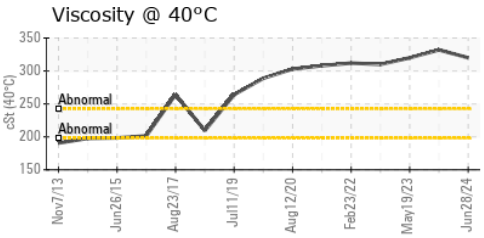
| FLUID PROPERTIES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Visc @ 40°C | cSt | ASTM D445 | | **320** | 332 | 320 |

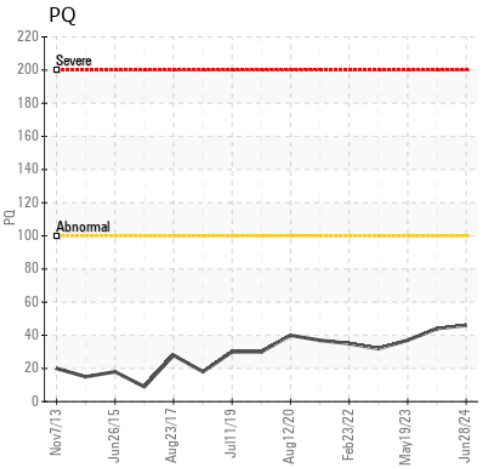
| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|
| Color | | |  | | |
| Bottom | | |  | | |

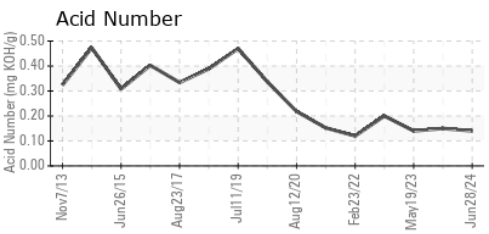
## GRAPHS




**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : PCA0127087 **Received** : 15 Jul 2024
**Lab Number** : 06236211 **Tested** : 16 Jul 2024
**Unique Number** : 11125045 **Diagnosed** : 17 Jul 2024 - Don Baldridge
**Test Package** : IND 2 ( Additional Tests: PQ )

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)*

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