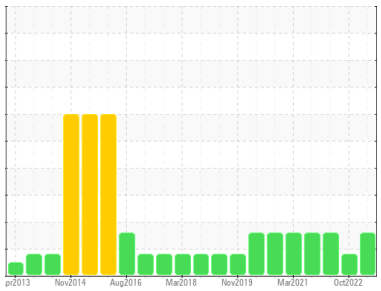
# OIL ANALYSIS REPORT

Sample Rating Trend



**WEAR**

Area
**LINE 6**
Machine Id
**[LINE 6] L6 WRAPPER 5 L6 WRAPPER 5**
Component
**Gearbox**
Fluid
**{not provided} (--- QTS)**

## 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 | | **PCA0118563** | PCA0078603 | PCA0051673 |
| Sample Date | | Client Info | | **24 Feb 2024** | 21 Oct 2022 | 18 Apr 2022 |
| 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 | | **44** | 39 | 29 |
| Iron | ppm | ASTM D5185m | >200 | **48** | 38 | 40 |
| Chromium | ppm | ASTM D5185m | >15 | **2** | 2 | 2 |
| Nickel | ppm | ASTM D5185m | >15 | **<1** | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | **<1** | <1 | <1 |
| Silver | ppm | ASTM D5185m | | **0** | 1 | 0 |
| Aluminum | ppm | ASTM D5185m | >25 | ▲ **239** | ▲ 221 | ▲ 211 |
| Lead | ppm | ASTM D5185m | >100 | **<1** | 0 | <1 |
| Copper | ppm | ASTM D5185m | >200 | **10** | 9 | 9 |
| Tin | ppm | ASTM D5185m | >25 | **<1** | <1 | <1 |
| Antimony | ppm | ASTM D5185m | >5 | **---** | --- | --- |
| Vanadium | ppm | ASTM D5185m | | **0** | <1 | 0 |
| Cadmium | ppm | ASTM D5185m | | **0** | 0 | 0 |

| ADDITIVES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Boron | ppm | ASTM D5185m | | **0** | 0 | <1 |
| Barium | ppm | ASTM D5185m | | **14** | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | **0** | <1 | 0 |
| Manganese | ppm | ASTM D5185m | | **<1** | 1 | <1 |
| Magnesium | ppm | ASTM D5185m | | **8** | 6 | 7 |
| Calcium | ppm | ASTM D5185m | | **3474** | 3212 | 3396 |
| Phosphorus | ppm | ASTM D5185m | | **519** | 511 | 574 |
| Zinc | ppm | ASTM D5185m | | **1493** | 1397 | 1485 |
| Sulfur | ppm | ASTM D5185m | | **1469** | 1311 | 1262 |

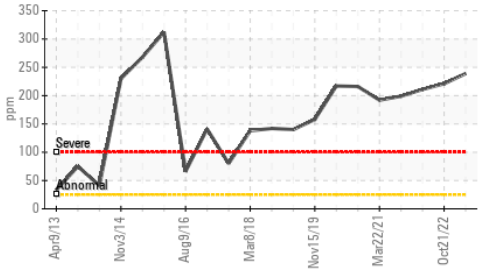
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Silicon | ppm | ASTM D5185m | >50 | **23** | 19 | 19 |
| Sodium | ppm | ASTM D5185m | | **2** | 2 | 2 |
| Potassium | ppm | ASTM D5185m | >20 | **2** | 0 | 1 |

| FLUID DEGRADATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | **0.17** | 0.22 | 0.76 |

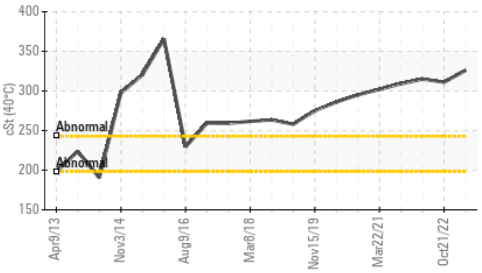
OIL DIAGNOSTICS

# OIL ANALYSIS REPORT

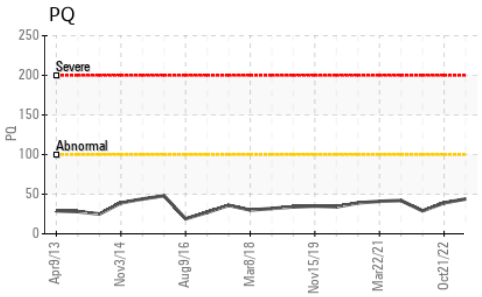
Aluminum (ppm)



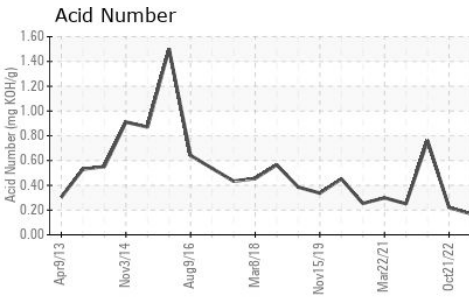

Viscosity @ 40°C




PQ

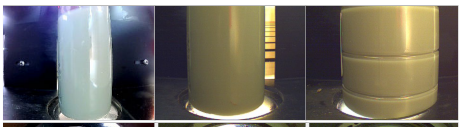
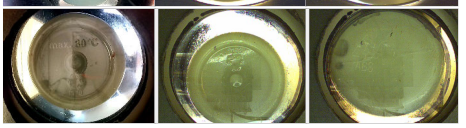



Acid Number



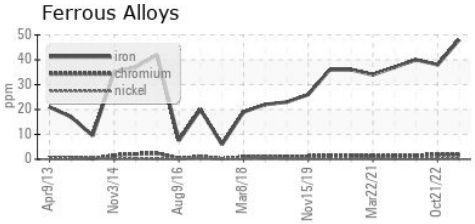

| VISUAL | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| White Metal | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Silt | scalar | *Visual | NONE | **MODER** | NONE | NONE |
| Debris | scalar | *Visual | NONE | **LIGHT** | NONE | NONE |
| Sand/Dirt | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Appearance | scalar | *Visual | NORML | **MILKY** | NORML | 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 | | **326** | 311 | 315 |

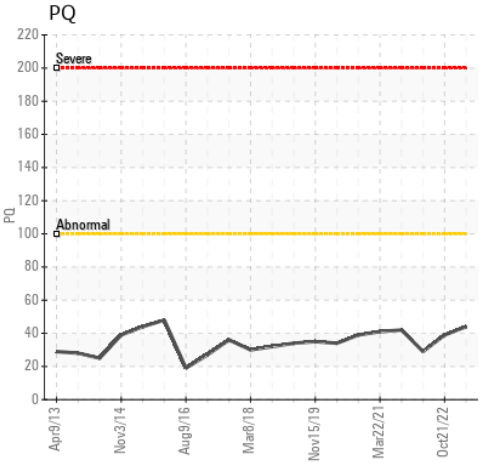
| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|
| Color | | |  | | |
| Bottom | | |  | | |

## GRAPHS

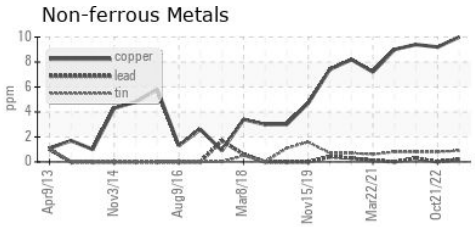
Ferrous Alloys



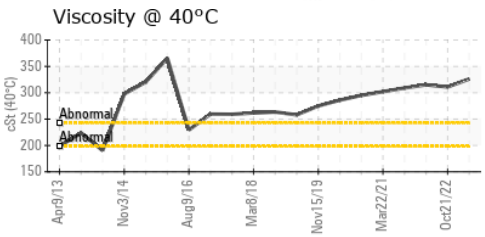

PQ



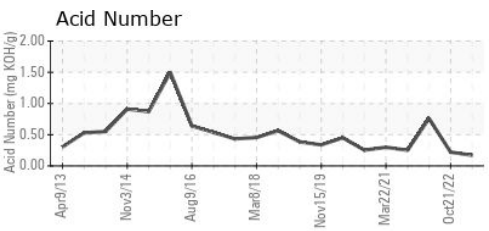

Non-ferrous Metals




Viscosity @ 40°C




Acid Number




Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : PCA0118563
**Lab Number** : 06110325
**Unique Number** : 10913822
**Test Package** : IND 2 ( Additional Tests: PQ )

**Received** : 06 Mar 2024
**Tested** : 07 Mar 2024
**Diagnosed** : 08 Mar 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)*

**THE HERSHEY COMPANY**
WEST HERSHEY - TECHNICAL ASSURANCE, 1033 OLDE WEST CHOCOLATE
HERSHEY, PA
US 17033
Contact: CLINTON ZOHNER
clintzohner@hersheys.com
T: (717)374-4846
F: (717)374-4594