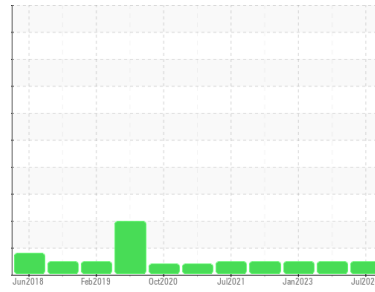


# OIL ANALYSIS REPORT

**Sample Rating Trend**

**NORMAL**


Area

**LINE 12 [910094109]**

Machine Id

**[LINE 12] TA-51001 L12 AGITATOR WHITE PASTE TANK TA-51001**

Component

**Gearbox**

Fluid

**{not provided} (--- GAL)**
**DIAGNOSIS**
**Recommendation**

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

**Wear**

All component wear rates are normal.

**Contamination**

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 |             | <b>PCA0130824</b>  | PCA0102813  | PCA0089762  |
| Sample Date   | Client Info |             | <b>05 Jul 2024</b> | 08 Dec 2023 | 29 Jan 2023 |
| Machine Age   | hrs         | Client Info | <b>0</b>           | 3000        | 3000        |
| Oil Age       | hrs         | Client Info | <b>0</b>           | 0           | 0           |
| Oil Changed   | Client Info |             | <b>N/A</b>         | N/A         | N/A         |
| Sample Status |             |             | <b>NORMAL</b>      | NORMAL      | NORMAL      |

**CONTAMINATION**

|       | method    | limit/base | current    | history1 | history2 |
|-------|-----------|------------|------------|----------|----------|
| Water | WC Method | >0.2       | <b>NEG</b> | NEG      | NEG      |

**WEAR METALS**

|          | method     | limit/base       | current    | history1 | history2 |
|----------|------------|------------------|------------|----------|----------|
| PQ       | ASTM D8184 |                  | <b>35</b>  | 13       | 17       |
| Iron     | ppm        | ASTM D5185m >200 | <b>29</b>  | 15       | 24       |
| Chromium | ppm        | ASTM D5185m >15  | <b>0</b>   | <1       | <1       |
| Nickel   | ppm        | ASTM D5185m >15  | <b>0</b>   | 0        | 0        |
| Titanium | ppm        | ASTM D5185m      | <b>2</b>   | 1        | 2        |
| Silver   | ppm        | ASTM D5185m      | <b>0</b>   | 0        | 0        |
| Aluminum | ppm        | ASTM D5185m >25  | <b>7</b>   | 6        | 7        |
| Lead     | ppm        | ASTM D5185m >100 | <b>0</b>   | 0        | 0        |
| Copper   | ppm        | ASTM D5185m >200 | <b>0</b>   | <1       | <1       |
| Tin      | ppm        | ASTM D5185m >25  | <b>0</b>   | 0        | 0        |
| Antimony | ppm        | ASTM D5185m >5   | <b>---</b> | ---      | ---      |
| Vanadium | ppm        | ASTM D5185m      | <b>0</b>   | 0        | 0        |
| Cadmium  | ppm        | ASTM D5185m      | <b>0</b>   | 0        | 0        |

**ADDITIVES**

|            | method | limit/base  | current    | history1 | history2 |
|------------|--------|-------------|------------|----------|----------|
| Boron      | ppm    | ASTM D5185m | <b>0</b>   | 0        | 0        |
| Barium     | ppm    | ASTM D5185m | <b>0</b>   | 0        | 0        |
| Molybdenum | ppm    | ASTM D5185m | <b>0</b>   | <1       | 0        |
| Manganese  | ppm    | ASTM D5185m | <b>0</b>   | 0        | <1       |
| Magnesium  | ppm    | ASTM D5185m | <b>2</b>   | 0        | 0        |
| Calcium    | ppm    | ASTM D5185m | <b>23</b>  | 15       | 21       |
| Phosphorus | ppm    | ASTM D5185m | <b>513</b> | 491      | 433      |
| Zinc       | ppm    | ASTM D5185m | <b>7</b>   | 0        | 0        |
| Sulfur     | ppm    | ASTM D5185m | <b>521</b> | 454      | 297      |

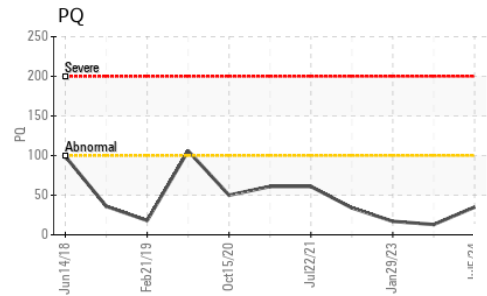
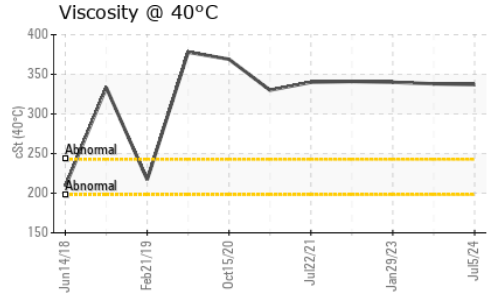
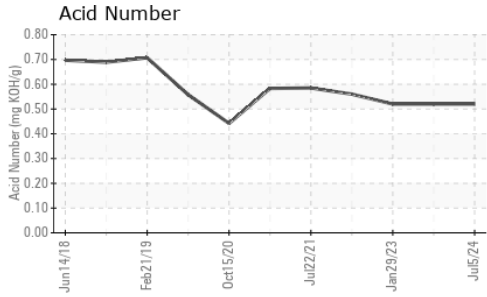
**CONTAMINANTS**

|           | method | limit/base      | current  | history1 | history2 |
|-----------|--------|-----------------|----------|----------|----------|
| Silicon   | ppm    | ASTM D5185m >50 | <b>3</b> | 3        | 3        |
| Sodium    | ppm    | ASTM D5185m     | <b>5</b> | 2        | 4        |
| Potassium | ppm    | ASTM D5185m >20 | <b>0</b> | <1       | 0        |

**FLUID DEGRADATION**

|                  | method   | limit/base | current     | history1 | history2 |
|------------------|----------|------------|-------------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | <b>0.52</b> | 0.52     | 0.52     |

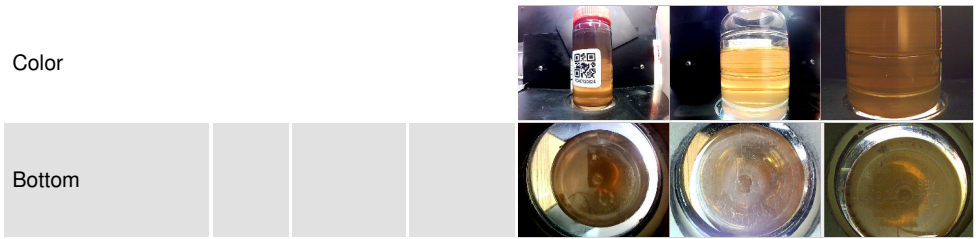
# OIL ANALYSIS REPORT



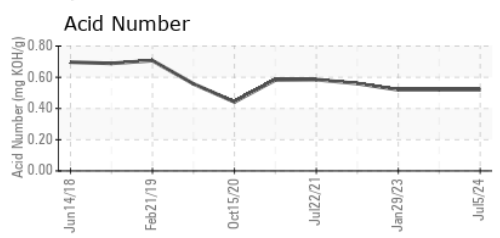
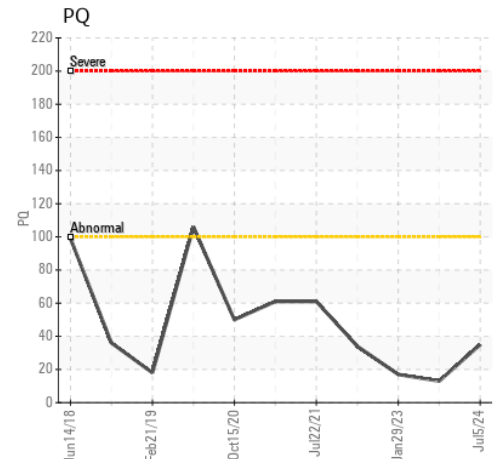
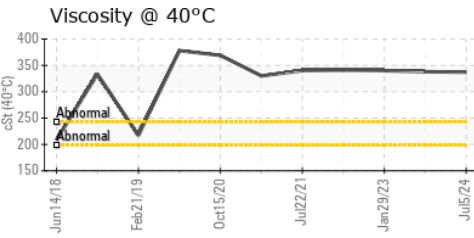
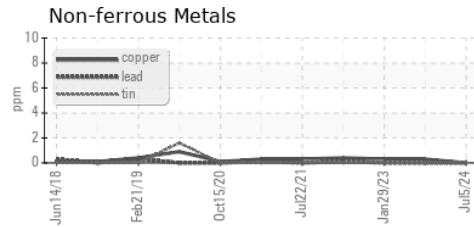
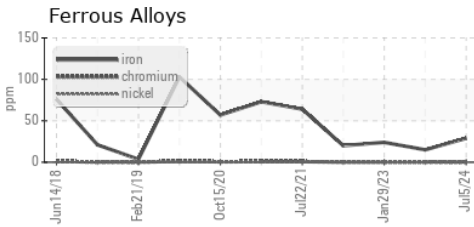
| VISUAL           | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal      | scalar | *Visual    | NONE    | NONE     | NONE     |
| Yellow Metal     | scalar | *Visual    | NONE    | NONE     | NONE     |
|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

| FLUID PROPERTIES | method | limit/base | current    | history1 | history2 |
|------------------|--------|------------|------------|----------|----------|
| Visc @ 40°C      | cSt    | ASTM D445  | <b>337</b> | 338      | 340      |

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



## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0130824  
**Lab Number** : 06236223  
**Unique Number** : 11125057  
**Test Package** : IND 2 ( Additional Tests: PQ )

**Received** : 15 Jul 2024  
**Tested** : 16 Jul 2024  
**Diagnosed** : 16 Jul 2024 - Wes Davis

**THE HERSHEY COMPANY**  
 WEST HERSHEY - TECHNICAL ASSURANCE, 1033 OLDE WEST CHOCOLATE  
 HERSHEY, PA  
 US 17033  
 Contact: BILL GEZIK  
 bgezik@hersheys.com

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)