



|                 |               |
|-----------------|---------------|
| WEAR            | <b>NORMAL</b> |
| CONTAMINATION   | <b>NORMAL</b> |
| FLUID CONDITION | <b>NORMAL</b> |

Area  
**FOOD GRADE LUBE**  
Machine Id  
**SULLIVAN PALATEK 23JE004511 - CALUMET PEN RECO**  
Component  
**Compressor**

### RECOMMENDATION

Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current            | History1    | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|----------|
| Sample Number  |     | Client Info |           | <b>UCS06224558</b> | UCS06064422 | ---      |
| Sample Date    |     | Client Info |           | <b>26 Jun 2024</b> | 10 Jan 2024 | ---      |
| Machine Age    | hrs | Client Info |           | <b>3914</b>        | 1435        | ---      |
| Oil Age        | hrs | Client Info |           | <b>2300</b>        | 1000        | ---      |
| Filter Age     | hrs | Client Info |           | <b>0</b>           | 0           | ---      |
| Oil Changed    |     | Client Info |           | <b>N/A</b>         | N/A         | ---      |
| Filter Changed |     | Client Info |           | <b>N/A</b>         | N/A         | ---      |
| Sample Status  |     |             |           | <b>NORMAL</b>      | NORMAL      | ---      |

### WEAR

All component wear rates are normal.

|              |        |             |      |              |      |     |
|--------------|--------|-------------|------|--------------|------|-----|
| Iron         | ppm    | ASTM D5185m | >50  | <b>0</b>     | 0    | --- |
| Chromium     | ppm    | ASTM D5185m | >10  | <b>0</b>     | 0    | --- |
| Nickel       | ppm    | ASTM D5185m |      | <b>0</b>     | 0    | --- |
| Titanium     | ppm    | ASTM D5185m |      | <b>0</b>     | 0    | --- |
| Silver       | ppm    | ASTM D5185m |      | <b>0</b>     | 0    | --- |
| Aluminum     | ppm    | ASTM D5185m | >25  | <b>&lt;1</b> | 0    | --- |
| Lead         | ppm    | ASTM D5185m | >25  | <b>0</b>     | 0    | --- |
| Copper       | ppm    | ASTM D5185m | >50  | <b>0</b>     | <1   | --- |
| Tin          | ppm    | ASTM D5185m | >15  | <b>&lt;1</b> | <1   | --- |
| Vanadium     | ppm    | ASTM D5185m |      | <b>0</b>     | 0    | --- |
| White Metal  | scalar | *Visual     | NONE | <b>MODER</b> | NONE | --- |
| Yellow Metal | scalar | *Visual     | NONE | <b>NONE</b>  | NONE | --- |

### CONTAMINATION

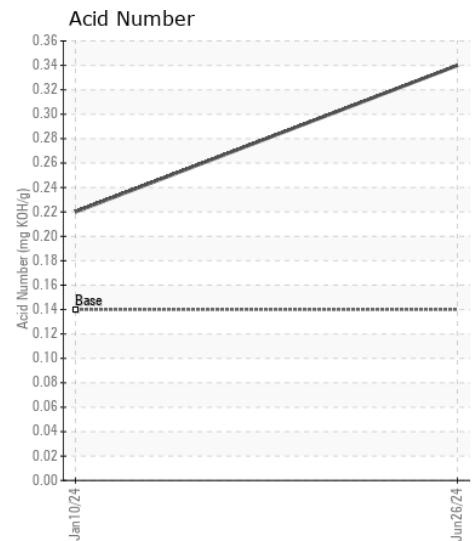
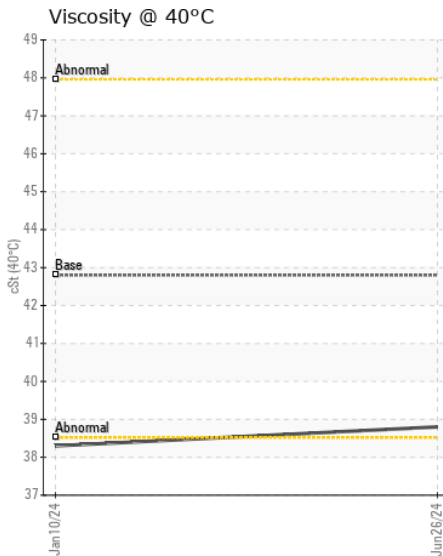
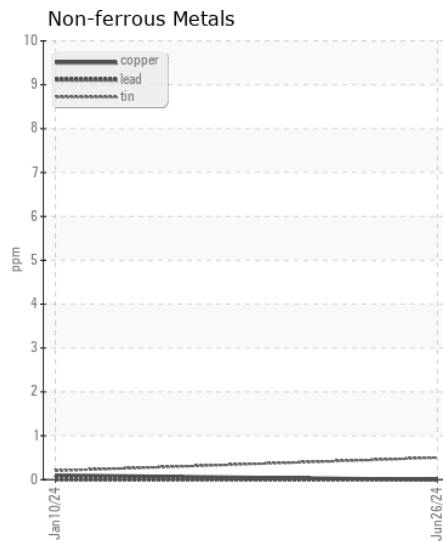
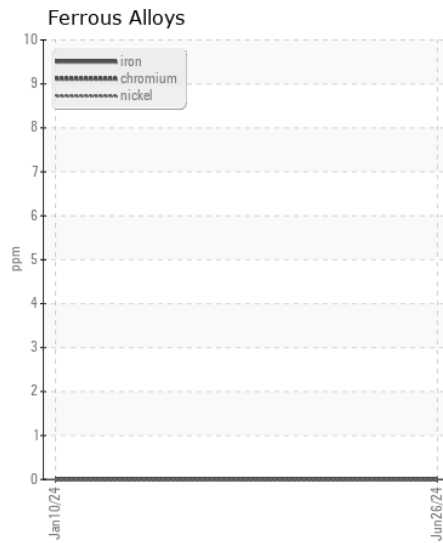
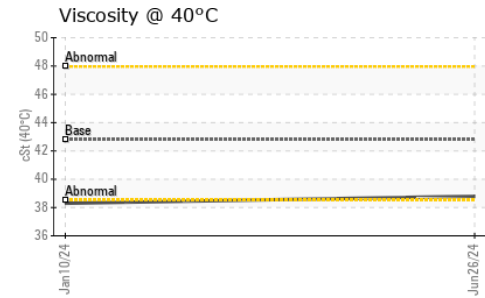
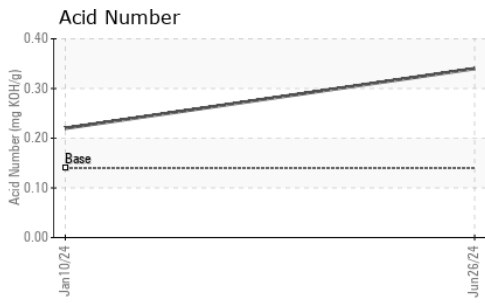
There is no indication of any contamination in the oil.

|                  |        |             |       |              |       |     |
|------------------|--------|-------------|-------|--------------|-------|-----|
| Silicon          | ppm    | ASTM D5185m | >25   | <b>&lt;1</b> | 0     | --- |
| Potassium        | ppm    | ASTM D5185m | >20   | <b>2</b>     | <1    | --- |
| Water            |        | WC Method   | >0.1  | <b>NEG</b>   | NEG   | --- |
| Silt             | scalar | *Visual     | NONE  | <b>NONE</b>  | NONE  | --- |
| Debris           | scalar | *Visual     | NONE  | <b>NONE</b>  | NONE  | --- |
| Sand/Dirt        | scalar | *Visual     | NONE  | <b>NONE</b>  | NONE  | --- |
| Appearance       | scalar | *Visual     | NORML | <b>NORML</b> | NORML | --- |
| Odor             | scalar | *Visual     | NORML | <b>NORML</b> | NORML | --- |
| Emulsified Water | scalar | *Visual     | >0.1  | <b>NEG</b>   | NEG   | --- |

### FLUID CONDITION

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

|                  |          |             |      |              |      |     |
|------------------|----------|-------------|------|--------------|------|-----|
| Sodium           | ppm      | ASTM D5185m |      | <b>&lt;1</b> | 0    | --- |
| Boron            | ppm      | ASTM D5185m | 1    | <b>0</b>     | 0    | --- |
| Barium           | ppm      | ASTM D5185m | 730  | <b>0</b>     | 0    | --- |
| Molybdenum       | ppm      | ASTM D5185m | 0    | <b>0</b>     | 0    | --- |
| Manganese        | ppm      | ASTM D5185m | 0.0  | <b>&lt;1</b> | 0    | --- |
| Magnesium        | ppm      | ASTM D5185m | 0    | <b>&lt;1</b> | 0    | --- |
| Calcium          | ppm      | ASTM D5185m | 0    | <b>0</b>     | 0    | --- |
| Phosphorus       | ppm      | ASTM D5185m | 0    | <b>387</b>   | 436  | --- |
| Zinc             | ppm      | ASTM D5185m | 0    | <b>0</b>     | 0    | --- |
| Sulfur           | ppm      | ASTM D5185m | 590  | <b>1285</b>  | 1088 | --- |
| Acid Number (AN) | mg KOH/g | ASTM D8045  | 0.14 | <b>0.34</b>  | 0.22 | --- |
| Visc @ 40°C      | cSt      | ASTM D445   | 42.8 | <b>38.8</b>  | 38.3 | --- |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513

**Sample No.** : UCS06224558

**Lab Number** : 06224558

**Unique Number** : 11102755

**Test Package** : IND 2

**Received** : 01 Jul 2024

**Tested** : 02 Jul 2024

**Diagnosed** : 02 Jul 2024 - Don Baldrige

**SHERMAN GROUP**

3727 POPLAR AVE

PITTSBURGH, PA

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F:

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)