



OIL ANALYSIS REPORT

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

Area  
**TA Machines**  
 Machine Id  
**SANY SY500 CA499 (S/N SY0503BK00198)**  
 Component  
**Right Final Drive**  
 Fluid  
**CITGO PREMIUM GEAR 80W90 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current            | History1    | History2    |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number  |     | Client Info |           | <b>LW0009063</b>   | LW0006325   | LW0006275   |
| Sample Date    |     | Client Info |           | <b>23 May 2024</b> | 11 Jan 2023 | 23 Nov 2022 |
| Machine Age    | hrs | Client Info |           | <b>1238</b>        | 0           | 277         |
| Oil Age        | hrs | Client Info |           | <b>1238</b>        | 0           | 0           |
| Filter Age     | hrs | Client Info |           | <b>0</b>           | 0           | 0           |
| Oil Changed    |     | Client Info |           | <b>Not Changd</b>  | Not Changd  | Not Changd  |
| Filter Changed |     | Client Info |           | <b>N/A</b>         | N/A         | N/A         |
| Sample Status  |     |             |           | <b>NORMAL</b>      | NORMAL      | NORMAL      |

**WEAR**

All component wear rates are normal.

|              |        |             |      |              |       |       |
|--------------|--------|-------------|------|--------------|-------|-------|
| Iron         | ppm    | ASTM D5185m | >500 | <b>145</b>   | 132   | 128   |
| Chromium     | ppm    | ASTM D5185m | >10  | <b>3</b>     | 3     | 3     |
| Nickel       | ppm    | ASTM D5185m | >10  | <b>0</b>     | 0     | 0     |
| Titanium     | ppm    | ASTM D5185m |      | <b>0</b>     | 0     | 0     |
| Silver       | ppm    | ASTM D5185m |      | <b>0</b>     | 0     | 0     |
| Aluminum     | ppm    | ASTM D5185m | >25  | <b>&lt;1</b> | 2     | 1     |
| Lead         | ppm    | ASTM D5185m | >25  | <b>0</b>     | 0     | 0     |
| Copper       | ppm    | ASTM D5185m | >50  | <b>0</b>     | 3     | 1     |
| Tin          | ppm    | ASTM D5185m | >10  | <b>0</b>     | <1    | 0     |
| Vanadium     | ppm    | ASTM D5185m |      | <b>0</b>     | 0     | 0     |
| White Metal  | scalar | *Visual     | NONE | <b>NONE</b>  | MODER | MODER |
| Yellow Metal | scalar | *Visual     | NONE | <b>NONE</b>  | NONE  | NONE  |

**CONTAMINATION**

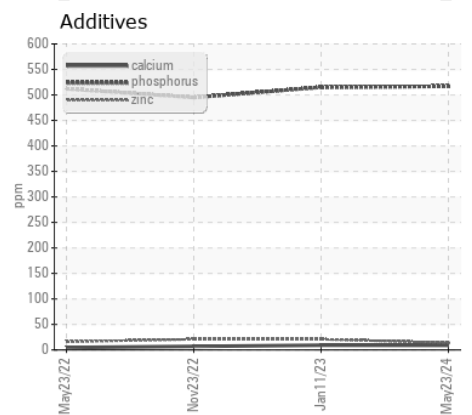
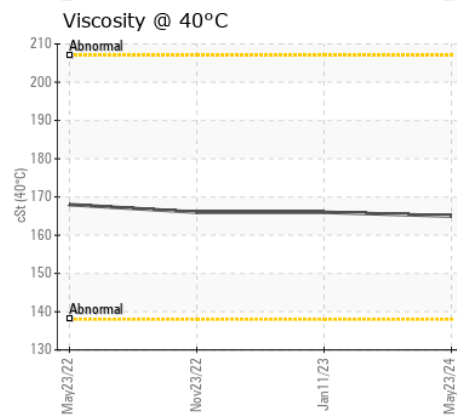
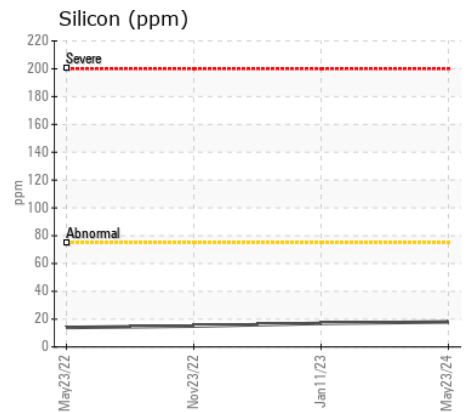
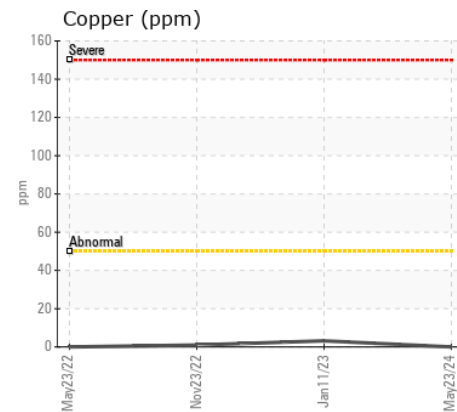
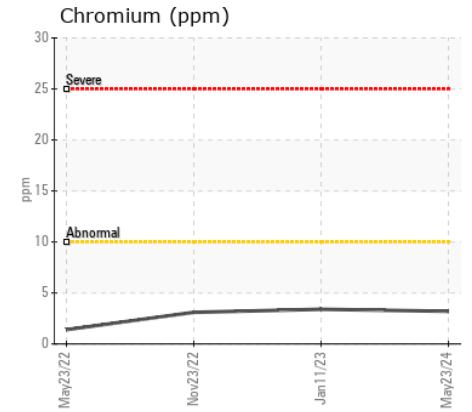
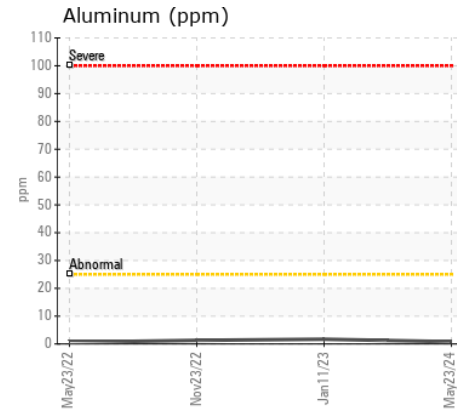
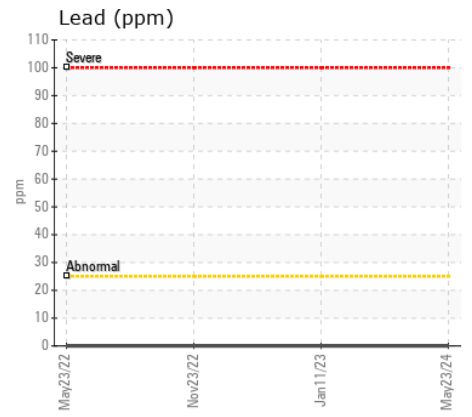
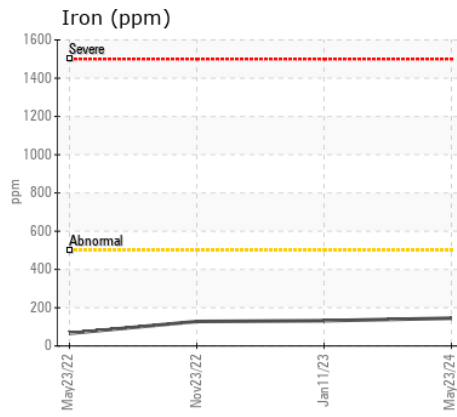
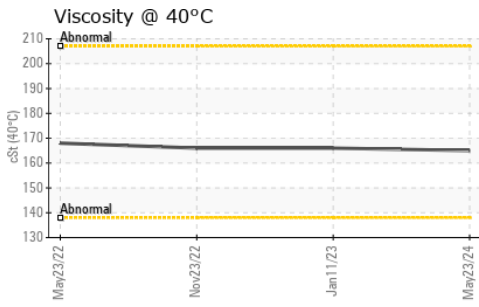
There is no indication of any contamination in the oil.

|                  |        |             |       |              |       |       |
|------------------|--------|-------------|-------|--------------|-------|-------|
| Silicon          | ppm    | ASTM D5185m | >75   | <b>18</b>    | 17    | 15    |
| Potassium        | ppm    | ASTM D5185m | >20   | <b>1</b>     | 1     | 0     |
| Water            |        | WC Method   | >0.2  | <b>NEG</b>   | NEG   | NEG   |
| Silt             | scalar | *Visual     | NONE  | <b>NONE</b>  | NONE  | NONE  |
| Debris           | scalar | *Visual     | NONE  | <b>NONE</b>  | NONE  | NONE  |
| Sand/Dirt        | scalar | *Visual     | NONE  | <b>NONE</b>  | NONE  | NONE  |
| Appearance       | scalar | *Visual     | NORML | <b>NORML</b> | NORML | NORML |
| Odor             | scalar | *Visual     | NORML | <b>NORML</b> | NORML | NORML |
| Emulsified Water | scalar | *Visual     | >0.2  | <b>NEG</b>   | NEG   | NEG   |

**FLUID CONDITION**

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

|             |     |             |  |              |       |       |
|-------------|-----|-------------|--|--------------|-------|-------|
| Sodium      | ppm | ASTM D5185m |  | <b>&lt;1</b> | 1     | <1    |
| Boron       | ppm | ASTM D5185m |  | <b>70</b>    | 64    | 64    |
| Barium      | ppm | ASTM D5185m |  | <b>4</b>     | 4     | 5     |
| Molybdenum  | ppm | ASTM D5185m |  | <b>0</b>     | 0     | 0     |
| Manganese   | ppm | ASTM D5185m |  | <b>4</b>     | 3     | 3     |
| Magnesium   | ppm | ASTM D5185m |  | <b>3</b>     | 2     | <1    |
| Calcium     | ppm | ASTM D5185m |  | <b>9</b>     | 9     | 7     |
| Phosphorus  | ppm | ASTM D5185m |  | <b>517</b>   | 515   | 495   |
| Zinc        | ppm | ASTM D5185m |  | <b>14</b>    | 21    | 21    |
| Sulfur      | ppm | ASTM D5185m |  | <b>17877</b> | 17740 | 16715 |
| Visc @ 40°C | cSt | ASTM D445   |  | <b>165</b>   | 166   | 166   |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LW0009063  
**Lab Number** : 06197096  
**Unique Number** : 11059219  
**Test Package** : MOB 1

**Received** : 31 May 2024  
**Tested** : 03 Jun 2024  
**Diagnosed** : 04 Jun 2024 - Don Baldrige

**CHICAGO MACHINERY INC**  
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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)