



# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id  
**TOTE 111**  
 Component  
**New (Unused) Oil**  
 Fluid  
**{not provided} (--- GAL)**

## DIAGNOSIS

### ▲ Recommendation

This is a baseline read-out on the submitted sample.

### ▲ Contamination

There is a high amount of silt (particulates < 6 microns in size) present in the oil.

| SAMPLE INFORMATION |             | method      | limit/base | current            | history1 | history2 |
|--------------------|-------------|-------------|------------|--------------------|----------|----------|
| Sample Number      | Client Info |             |            | <b>TLC0001635</b>  | ---      | ---      |
| Sample Date        | Client Info |             |            | <b>19 Apr 2024</b> | ---      | ---      |
| Machine Age        | hrs         | Client Info |            | <b>0</b>           | ---      | ---      |
| Oil Age            | hrs         | Client Info |            | <b>0</b>           | ---      | ---      |
| Oil Changed        | Client Info |             |            | <b>N/A</b>         | ---      | ---      |
| Sample Status      |             |             |            | <b>ABNORMAL</b>    | ---      | ---      |

| WEAR METALS |     | method      | limit/base | current      | history1 | history2 |
|-------------|-----|-------------|------------|--------------|----------|----------|
| Iron        | ppm | ASTM D5185m | >5         | <b>0</b>     | ---      | ---      |
| Chromium    | ppm | ASTM D5185m | >5         | <b>0</b>     | ---      | ---      |
| Nickel      | ppm | ASTM D5185m | >5         | <b>0</b>     | ---      | ---      |
| Titanium    | ppm | ASTM D5185m |            | <b>0</b>     | ---      | ---      |
| Silver      | ppm | ASTM D5185m | >5         | <b>0</b>     | ---      | ---      |
| Aluminum    | ppm | ASTM D5185m | >5         | <b>1</b>     | ---      | ---      |
| Lead        | ppm | ASTM D5185m | >5         | <b>0</b>     | ---      | ---      |
| Copper      | ppm | ASTM D5185m | >5         | <b>0</b>     | ---      | ---      |
| Tin         | ppm | ASTM D5185m | >5         | <b>&lt;1</b> | ---      | ---      |
| Vanadium    | ppm | ASTM D5185m |            | <b>0</b>     | ---      | ---      |
| Cadmium     | ppm | ASTM D5185m |            | <b>0</b>     | ---      | ---      |

| ADDITIVES  |     | method      | limit/base | current     | history1 | history2 |
|------------|-----|-------------|------------|-------------|----------|----------|
| Boron      | ppm | ASTM D5185m |            | <b>89</b>   | ---      | ---      |
| Barium     | ppm | ASTM D5185m |            | <b>0</b>    | ---      | ---      |
| Molybdenum | ppm | ASTM D5185m |            | <b>37</b>   | ---      | ---      |
| Manganese  | ppm | ASTM D5185m |            | <b>0</b>    | ---      | ---      |
| Magnesium  | ppm | ASTM D5185m |            | <b>216</b>  | ---      | ---      |
| Calcium    | ppm | ASTM D5185m |            | <b>734</b>  | ---      | ---      |
| Phosphorus | ppm | ASTM D5185m |            | <b>453</b>  | ---      | ---      |
| Zinc       | ppm | ASTM D5185m |            | <b>536</b>  | ---      | ---      |
| Sulfur     | ppm | ASTM D5185m |            | <b>2304</b> | ---      | ---      |

| CONTAMINANTS |     | method      | limit/base | current    | history1 | history2 |
|--------------|-----|-------------|------------|------------|----------|----------|
| Silicon      | ppm | ASTM D5185m | >15        | <b>6</b>   | ---      | ---      |
| Sodium       | ppm | ASTM D5185m |            | <b>0</b>   | ---      | ---      |
| Potassium    | ppm | ASTM D5185m | >20        | <b>3</b>   | ---      | ---      |
| Water        | %   | ASTM D6304  |            | <b>NEG</b> | ---      | ---      |

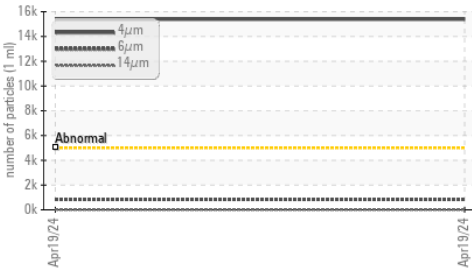
| FLUID CLEANLINESS |  | method       | limit/base | current           | history1 | history2 |
|-------------------|--|--------------|------------|-------------------|----------|----------|
| Particles >4µm    |  | ASTM D7647   | >5000      | <b>▲ 15393</b>    | ---      | ---      |
| Particles >6µm    |  | ASTM D7647   | >1300      | <b>845</b>        | ---      | ---      |
| Particles >14µm   |  | ASTM D7647   | >160       | <b>15</b>         | ---      | ---      |
| Particles >21µm   |  | ASTM D7647   | >40        | <b>4</b>          | ---      | ---      |
| Particles >38µm   |  | ASTM D7647   | >10        | <b>0</b>          | ---      | ---      |
| Particles >71µm   |  | ASTM D7647   | >3         | <b>0</b>          | ---      | ---      |
| Oil Cleanliness   |  | ISO 4406 (c) | >19/17/14  | <b>▲ 21/17/11</b> | ---      | ---      |

| FLUID DEGRADATION |          | method     | limit/base | current     | history1 | history2 |
|-------------------|----------|------------|------------|-------------|----------|----------|
| Acid Number (AN)  | mg KOH/g | ASTM D8045 |            | <b>1.27</b> | ---      | ---      |

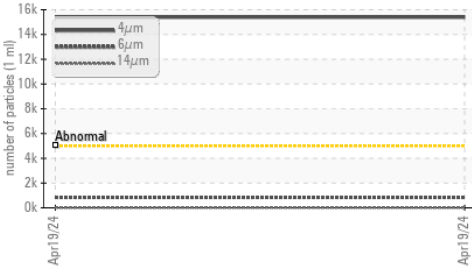


# OIL ANALYSIS REPORT

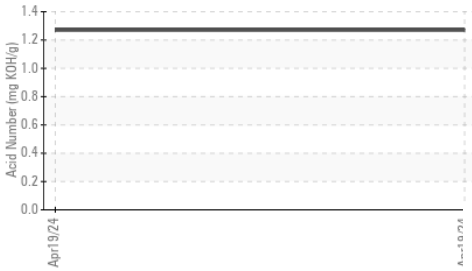
## Particle Trend



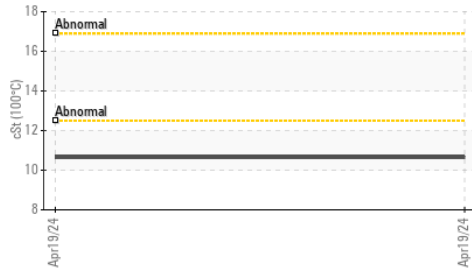
## Particle Trend



## Acid Number



## Viscosity @ 100°C



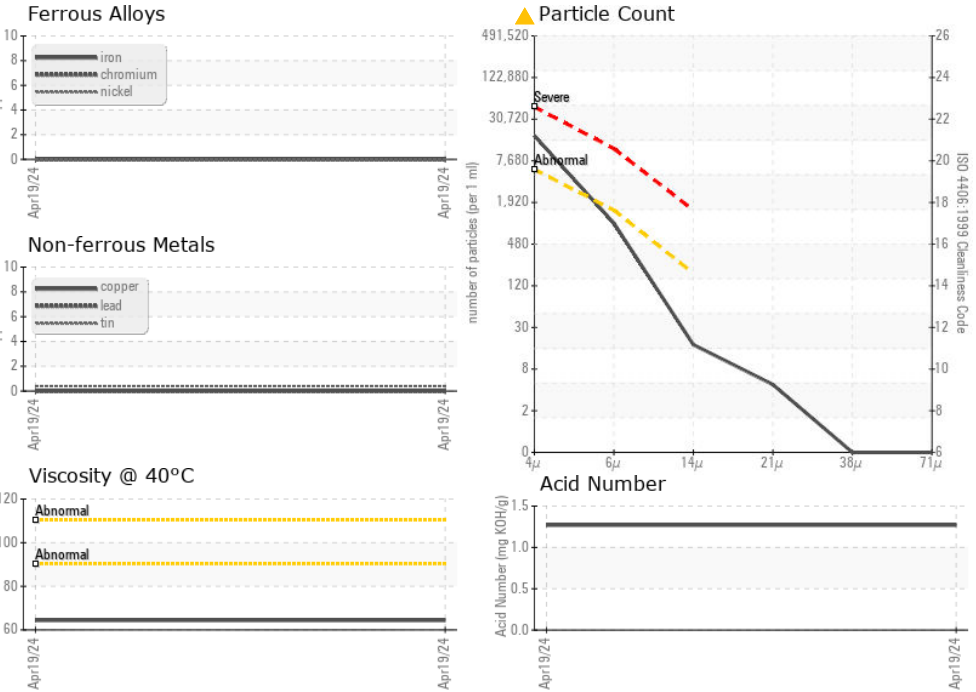
| VISUAL           | method | limit/base | current    | history1     | history2 |
|------------------|--------|------------|------------|--------------|----------|
| White Metal      | scalar | *Visual    | NONE       | <b>NONE</b>  | ---      |
| Yellow Metal     | scalar | *Visual    | NONE       |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

| FLUID PROPERTIES     | method | limit/base | current      | history1 | history2 |
|----------------------|--------|------------|--------------|----------|----------|
| Visc @ 40°C          | cSt    | ASTM D445  | <b>64.39</b> | ---      | ---      |
| Visc @ 100°C         | cSt    | ASTM D445  | <b>10.65</b> | ---      | ---      |
| Viscosity Index (VI) | Scale  | ASTM D2270 | <b>155</b>   | ---      | ---      |

## SAMPLE IMAGES

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

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TLC0001635 **Received** : 25 Apr 2024  
**Lab Number** : **06160885** **Tested** : 30 Apr 2024  
**Unique Number** : 10996308 **Diagnosed** : 30 Apr 2024 - Jonathan Hester  
**Test Package** : PLANT ( Additional Tests: FT-IR, ICP-NewOil, KV100, VI )

**SUPPLY PRO**  
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 ATLANTA, GA  
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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)