

# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**FLORY 34 SERIES SW-05 (S/N 3045939)**

Component  
**Diesel Engine**

Fluid  
**DIESEL ENGINE OIL SAE 15W40 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

## SAMPLE INFORMATION

|               | method      | limit/base  | current            | history1 | history2 |
|---------------|-------------|-------------|--------------------|----------|----------|
| Sample Number | Client Info |             | <b>PCA0107046</b>  | ---      | ---      |
| Sample Date   | Client Info |             | <b>30 Oct 2023</b> | ---      | ---      |
| Machine Age   | hrs         | Client Info | <b>4668</b>        | ---      | ---      |
| Oil Age       | hrs         | Client Info | <b>250</b>         | ---      | ---      |
| Oil Changed   | Client Info |             | <b>Changed</b>     | ---      | ---      |
| Sample Status |             |             | <b>NORMAL</b>      | ---      | ---      |

## CONTAMINATION

|        | method    | limit/base | current        | history1 | history2 |
|--------|-----------|------------|----------------|----------|----------|
| Fuel   | WC Method | >5         | <b>&lt;1.0</b> | ---      | ---      |
| Glycol | WC Method |            | <b>NEG</b>     | ---      | ---      |

## WEAR METALS

|          | method | limit/base       | current      | history1 | history2 |
|----------|--------|------------------|--------------|----------|----------|
| Iron     | ppm    | ASTM D5185m >100 | <b>17</b>    | ---      | ---      |
| Chromium | ppm    | ASTM D5185m >20  | <b>&lt;1</b> | ---      | ---      |
| Nickel   | ppm    | ASTM D5185m >4   | <b>0</b>     | ---      | ---      |
| Titanium | ppm    | ASTM D5185m      | <b>&lt;1</b> | ---      | ---      |
| Silver   | ppm    | ASTM D5185m >3   | <b>0</b>     | ---      | ---      |
| Aluminum | ppm    | ASTM D5185m >20  | <b>4</b>     | ---      | ---      |
| Lead     | ppm    | ASTM D5185m >40  | <b>2</b>     | ---      | ---      |
| Copper   | ppm    | ASTM D5185m >330 | <b>0</b>     | ---      | ---      |
| Tin      | ppm    | ASTM D5185m >15  | <b>0</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 250  | <b>8</b>    | ---      | ---      |
| Barium     | ppm    | ASTM D5185m 10   | <b>0</b>    | ---      | ---      |
| Molybdenum | ppm    | ASTM D5185m 100  | <b>56</b>   | ---      | ---      |
| Manganese  | ppm    | ASTM D5185m      | <b>0</b>    | ---      | ---      |
| Magnesium  | ppm    | ASTM D5185m 450  | <b>874</b>  | ---      | ---      |
| Calcium    | ppm    | ASTM D5185m 3000 | <b>1091</b> | ---      | ---      |
| Phosphorus | ppm    | ASTM D5185m 1150 | <b>936</b>  | ---      | ---      |
| Zinc       | ppm    | ASTM D5185m 1350 | <b>1202</b> | ---      | ---      |
| Sulfur     | ppm    | ASTM D5185m 4250 | <b>2905</b> | ---      | ---      |

## CONTAMINANTS

|           | method | limit/base       | current      | history1 | history2 |
|-----------|--------|------------------|--------------|----------|----------|
| Silicon   | ppm    | ASTM D5185m >25  | <b>8</b>     | ---      | ---      |
| Sodium    | ppm    | ASTM D5185m >158 | <b>&lt;1</b> | ---      | ---      |
| Potassium | ppm    | ASTM D5185m >20  | <b>0</b>     | ---      | ---      |

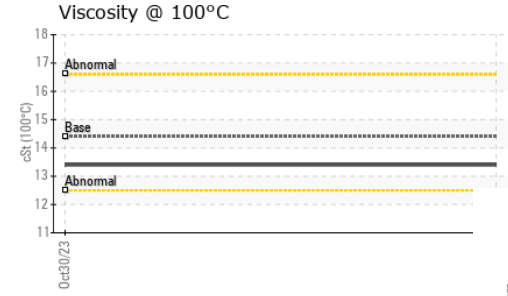
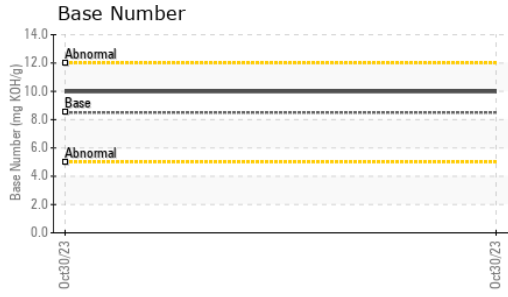
## INFRA-RED

|           | method   | limit/base      | current     | history1 | history2 |
|-----------|----------|-----------------|-------------|----------|----------|
| Soot %    | %        | *ASTM D7844 >3  | <b>0.2</b>  | ---      | ---      |
| Nitration | Abs/cm   | *ASTM D7624 >20 | <b>6.4</b>  | ---      | ---      |
| Sulfation | Abs/.1mm | *ASTM D7415 >30 | <b>19.0</b> | ---      | ---      |

## FLUID DEGRADATION

|                  | method   | limit/base      | current     | history1 | history2 |
|------------------|----------|-----------------|-------------|----------|----------|
| Oxidation        | Abs/.1mm | *ASTM D7414 >25 | <b>14.9</b> | ---      | ---      |
| Base Number (BN) | mg KOH/g | ASTM D2896 8.5  | <b>9.98</b> | ---      | ---      |

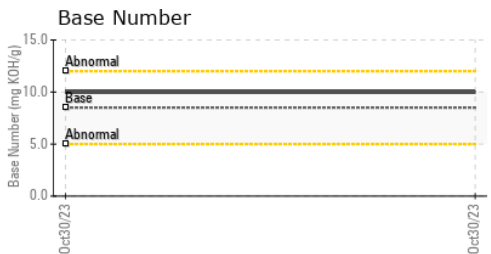
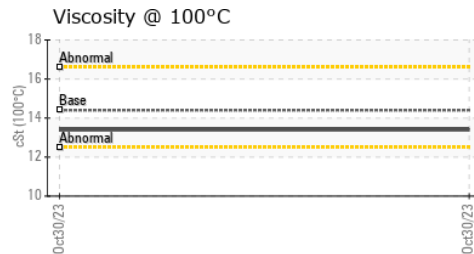
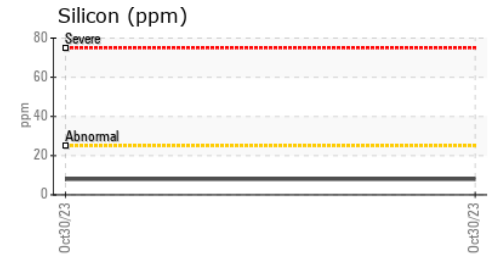
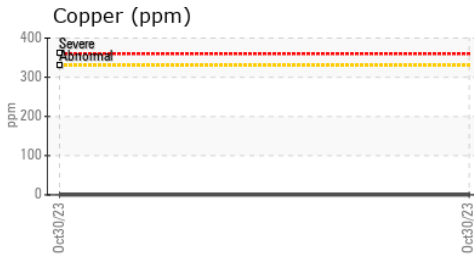
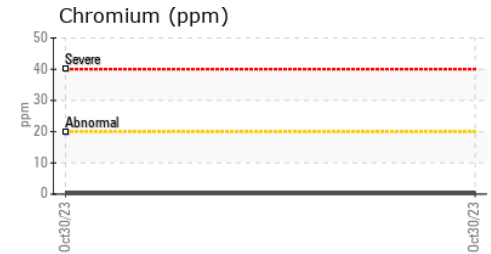
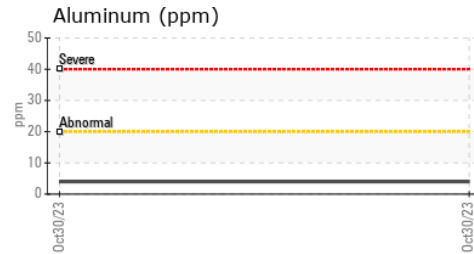
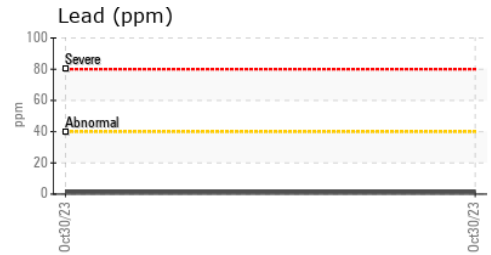
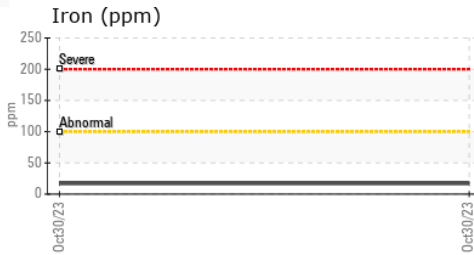
# OIL ANALYSIS REPORT



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

| FLUID PROPERTIES | method | limit/base | current | history1    | history2 |
|------------------|--------|------------|---------|-------------|----------|
| Visc @ 100°C     | cSt    | ASTM D445  | 14.4    | <b>13.4</b> | ---      |

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0107046 **Received** : 08 Nov 2023  
**Lab Number** : **06001764** **Diagnosed** : 10 Nov 2023  
**Unique Number** : 10735526 **Diagnostician** : Wes Davis  
**Test Package** : MOB 2

**TRINITAS FARMING**  
 45499 W PANOCHE RD  
 FIREBAUGH, CA  
 US 93622

Contact: SPENCER COOPER  
 spencer.cooper@trinitasfarming.com

T: (209)493-2999

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)

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