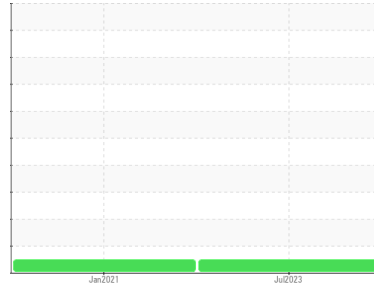




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**SKYTRACT**

Component  
**Diesel Engine**

Fluid  
**TRC MOLY XL PRO-SPEC IV 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>TR0000922</b>   | TR05174944  | ---      |
| Sample Date   | Client Info | <b>20 Jul 2023</b> | 29 Jan 2021 | ---      |
| Machine Age   | hrs         | <b>1443</b>        | 1172        | ---      |
| Oil Age       | hrs         | <b>271</b>         | 0           | ---      |
| Oil Changed   | Client Info | <b>N/A</b>         | Not Changd  | ---      |
| Sample Status |             | <b>NORMAL</b>      | NORMAL      | ---      |

## CONTAMINATION

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

## WEAR METALS

| method   | limit/base           | current      | history1 | history2 |
|----------|----------------------|--------------|----------|----------|
| Iron     | ppm ASTM D5185m >100 | <b>31</b>    | 15       | ---      |
| Chromium | ppm ASTM D5185m >20  | <b>8</b>     | 4        | ---      |
| Nickel   | ppm ASTM D5185m >4   | <b>0</b>     | <1       | ---      |
| Titanium | ppm ASTM D5185m      | <b>7</b>     | 8        | ---      |
| Silver   | ppm ASTM D5185m >3   | <b>&lt;1</b> | <1       | ---      |
| Aluminum | ppm ASTM D5185m >20  | <b>4</b>     | 6        | ---      |
| Lead     | ppm ASTM D5185m >40  | <b>10</b>    | 4        | ---      |
| Copper   | ppm ASTM D5185m >330 | <b>2</b>     | 2        | ---      |
| Tin      | ppm ASTM D5185m >15  | <b>&lt;1</b> | <1       | ---      |
| Antimony | ppm ASTM D5185m      | <b>---</b>   | 0        | ---      |
| Vanadium | ppm ASTM D5185m      | <b>0</b>     | <1       | ---      |
| Cadmium  | ppm ASTM D5185m      | <b>&lt;1</b> | <1       | ---      |

## ADDITIVES

| method     | limit/base           | current      | history1 | history2 |
|------------|----------------------|--------------|----------|----------|
| Boron      | ppm ASTM D5185m      | <b>21</b>    | 20       | ---      |
| Barium     | ppm ASTM D5185m      | <b>&lt;1</b> | 0        | ---      |
| Molybdenum | ppm ASTM D5185m      | <b>154</b>   | 144      | ---      |
| Manganese  | ppm ASTM D5185m      | <b>1</b>     | <1       | ---      |
| Magnesium  | ppm ASTM D5185m      | <b>776</b>   | 749      | ---      |
| Calcium    | ppm ASTM D5185m 1300 | <b>2368</b>  | 1593     | ---      |
| Phosphorus | ppm ASTM D5185m      | <b>1120</b>  | 1012     | ---      |
| Zinc       | ppm ASTM D5185m 1300 | <b>1382</b>  | 1115     | ---      |
| Sulfur     | ppm ASTM D5185m      | <b>5268</b>  | 3106     | ---      |

## CONTAMINANTS

| method    | limit/base          | current      | history1 | history2 |
|-----------|---------------------|--------------|----------|----------|
| Silicon   | ppm ASTM D5185m >25 | <b>8</b>     | 5        | ---      |
| Sodium    | ppm ASTM D5185m     | <b>5</b>     | 7        | ---      |
| Potassium | ppm ASTM D5185m >20 | <b>&lt;1</b> | <1       | ---      |

## INFRA-RED

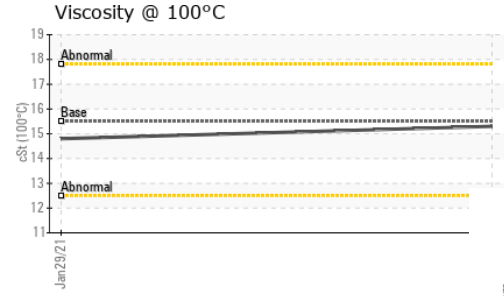
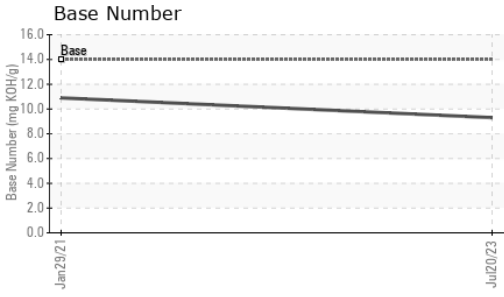
| method    | limit/base               | current     | history1 | history2 |
|-----------|--------------------------|-------------|----------|----------|
| Soot %    | % *ASTM D7844 >3         | <b>0.9</b>  | 0.4      | ---      |
| Nitration | Abs/cm *ASTM D7624 >20   | <b>19.2</b> | 15.4     | ---      |
| Sulfation | Abs/.1mm *ASTM D7415 >30 | <b>29.7</b> | 24.7     | ---      |

## FLUID DEGRADATION

| method           | limit/base               | current     | history1 | history2 |
|------------------|--------------------------|-------------|----------|----------|
| Oxidation        | Abs/.1mm *ASTM D7414 >25 | <b>27.3</b> | 20.8     | ---      |
| Base Number (BN) | mg KOH/g ASTM D2896 14   | <b>9.3</b>  | 10.9     | ---      |



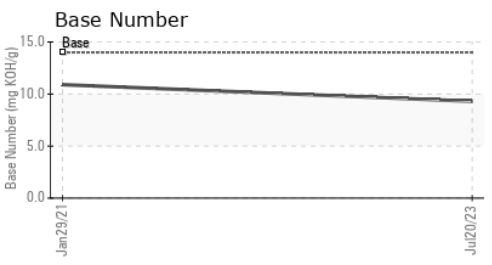
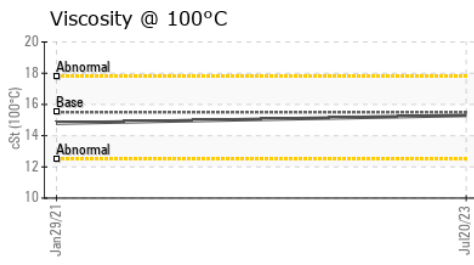
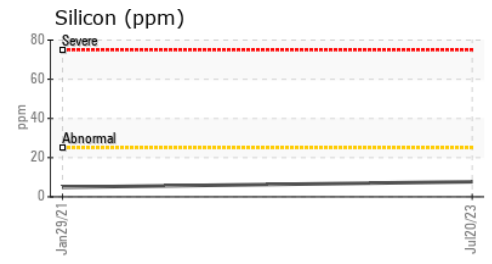
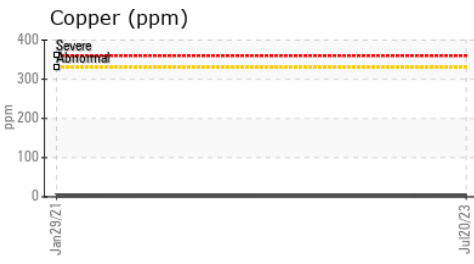
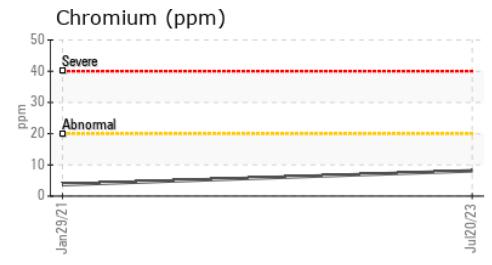
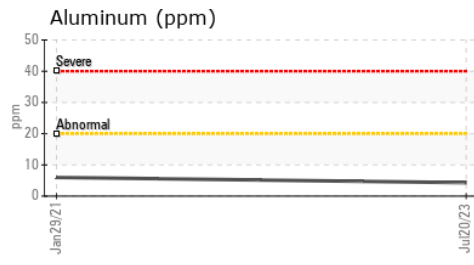
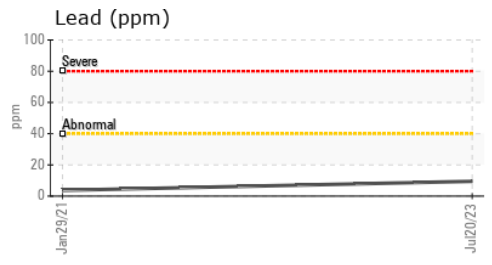
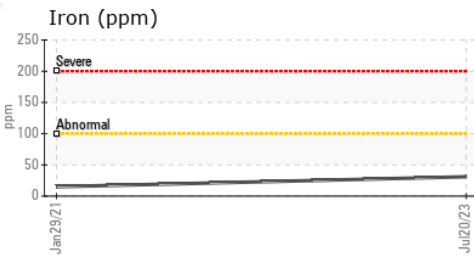
# OIL ANALYSIS REPORT



| 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  | 15.5    | <b>15.3</b> | 14.8     | --- |

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TR0000922 **Received** : 24 Jul 2023  
**Lab Number** : **05905273** **Diagnosed** : 25 Jul 2023  
**Unique Number** : 10566629 **Diagnostician** : Sean Felton  
**Test Package** : MOB 2

**DIETERMAN FARM SERVICES**  
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 MARION, MI  
 US 49665  
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 dietermanfarmservices@hotmail.com  
 T:  
 F:

To discuss this sample report, contact Customer Service at 1-800-827-0711.  
 \* - 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)