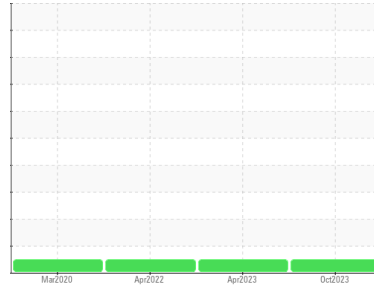




# FUEL REPORT

Sample Rating Trend

**NORMAL**



Area  
**[W125918]**  
 Machine Id  
**KOHLER 2325295 - HILLCO SUPPORT NORTH CHASE**  
 Component  
**Diesel Fuel**  
 Fluid  
**No.2 DIESEL FUEL (ULTRALOW SULPHUR) (200 GAL)**

## DIAGNOSIS

### Recommendation

All laboratory tests indicate that this sample meets specifications for No.2 ultra-low-sulfur diesel fuel.

### Corrosion

All metal levels are normal indicating no corrosion in the system.

### Contaminants

The water content is negligible. There is no bacteria or fungus (yeast and/or mold) indicated in the sample. There is no indication of any contamination in the fuel.

### Fuel Condition

Sulfur value derived by ASTM D5453 method for ULSD validation. Sulfur level is acceptable for ULSD specification.

## SAMPLE INFORMATION

|               | method      | limit/base  | current            | history1    | history2    |
|---------------|-------------|-------------|--------------------|-------------|-------------|
| Sample Number | Client Info |             | <b>WC0797377</b>   | WC0770664   | WC0616318   |
| Sample Date   | Client Info |             | <b>19 Oct 2023</b> | 14 Apr 2023 | 19 Apr 2022 |
| Machine Age   | mths        | Client Info | <b>0</b>           | 0           | 0           |
| Sample Status |             |             | <b>NORMAL</b>      | NORMAL      | NORMAL      |

## PHYSICAL PROPERTIES

|             | method | limit/base  | current     | history1 | history2 |
|-------------|--------|-------------|-------------|----------|----------|
| ASTM Color  | scalar | *ASTM D1500 | <b>L4.5</b> | L4.5     | 4.0      |
| Visc @ 40°C | cSt    | ASTM D445   | <b>3.0</b>  | 2.44     | 2.37     |

## SULFUR CONTENT

|              | method | limit/base  | current   | history1 | history2 |
|--------------|--------|-------------|-----------|----------|----------|
| Sulfur       | ppm    | ASTM D5185m | <b>10</b> | 0        | 0        |
| Sulfur (UVF) | ppm    | ASTM D5453  | <b>10</b> | 11       | 16       |

## CONTAMINANTS

|             | method | limit/base  | current         | history1 | history2 |
|-------------|--------|-------------|-----------------|----------|----------|
| Silicon     | ppm    | ASTM D5185m | <b>&lt;1.0</b>  | 0        | <1       |
| Sodium      | ppm    | ASTM D5185m | <b>&lt;0.1</b>  | 0        | 0        |
| Potassium   | ppm    | ASTM D5185m | <b>&lt;1</b>    | 1        | 0        |
| Water       | %      | ASTM D6304  | <b>&lt;0.05</b> | 0.006    | 0.002    |
| ppm Water   | ppm    | ASTM D6304  | <b>&lt;500</b>  | 65.4     | 23.7     |
| % Gasoline  | %      | *In-House   | <b>&lt;0.50</b> | 0.0      | 0.0      |
| % Biodiesel | %      | *In-House   | <b>&lt;20.0</b> | 0.0      | 0.0      |

## HEAVY METALS

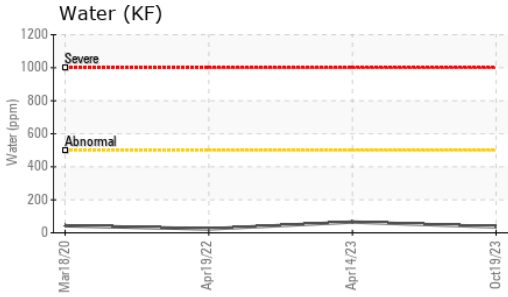
|            | method | limit/base  | current        | history1 | history2 |
|------------|--------|-------------|----------------|----------|----------|
| Aluminum   | ppm    | ASTM D5185m | <b>&lt;0.1</b> | 0        | <1       |
| Nickel     | ppm    | ASTM D5185m | <b>&lt;0.1</b> | 0        | 0        |
| Lead       | ppm    | ASTM D5185m | <b>&lt;0.1</b> | 0        | 0        |
| Vanadium   | ppm    | ASTM D5185m | <b>&lt;0.1</b> | 0        | 0        |
| Iron       | ppm    | ASTM D5185m | <b>&lt;0.1</b> | 0        | 0        |
| Calcium    | ppm    | ASTM D5185m | <b>&lt;0.1</b> | 0        | 0        |
| Magnesium  | ppm    | ASTM D5185m | <b>&lt;0.1</b> | <1       | 0        |
| Phosphorus | ppm    | ASTM D5185m | <b>&lt;0.1</b> | <1       | 6        |
| Zinc       | ppm    | ASTM D5185m | <b>&lt;0.1</b> | 0        | 0        |

## SAMPLE IMAGES

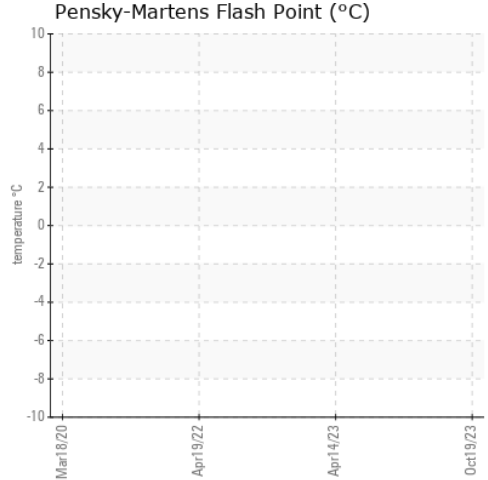
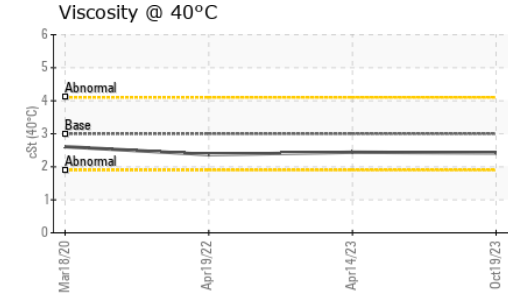
|        | method | limit/base | current | history1 | history2 |
|--------|--------|------------|---------|----------|----------|
| Color  |        |            |         |          |          |
| Bottom |        |            |         |          |          |



# FUEL REPORT



## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0797377 **Received** : 01 Nov 2023  
**Lab Number** : 05996444 **Diagnosed** : 13 Nov 2023  
**Unique Number** : 10724804 **Diagnostician** : Doug Bogart  
**Test Package** : DF-5 ( Additional Tests: Screen )

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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