



# FUEL REPORT

Sample Rating Trend



**NORMAL**



Area  
**[PMOAS3372441]**  
 Machine Id  
**NFA655G53420**  
 Component  
**Diesel Fuel**  
 Fluid  
**No.2 DIESEL FUEL (ULTRALOW SULPHUR) (--- QTS)**

## DIAGNOSIS

### Recommendation

All laboratory tests indicate that this sample meets specifications for No.2 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.

| SAMPLE INFORMATION |             | method      | limit/base | current            | history1 | history2 |
|--------------------|-------------|-------------|------------|--------------------|----------|----------|
| Sample Number      | Client Info |             |            | <b>DC0034662</b>   | ---      | ---      |
| Sample Date        | Client Info |             |            | <b>19 Apr 2024</b> | ---      | ---      |
| Machine Age        | hrs         | Client Info |            | <b>708</b>         | ---      | ---      |
| Sample Status      |             |             |            | <b>NORMAL</b>      | ---      | ---      |


| PHYSICAL PROPERTIES |        | method      | limit/base | current     | history1 | history2 |
|---------------------|--------|-------------|------------|-------------|----------|----------|
| ASTM Color          | scalar | *ASTM D1500 |            | <b>L4.5</b> | ---      | ---      |
| Visc @ 40°C         | cSt    | ASTM D445   | 3.0        | <b>2.4</b>  | ---      | ---      |

| SULFUR CONTENT |     | method      | limit/base | current   | history1 | history2 |
|----------------|-----|-------------|------------|-----------|----------|----------|
| Sulfur         | ppm | ASTM D5185m | 10         | <b>0</b>  | ---      | ---      |
| Sulfur (UVF)   | ppm | ASTM D5453  |            | <b>18</b> | ---      | ---      |

| IGNITION QUALITY |  | method     | limit/base | current     | history1 | history2 |
|------------------|--|------------|------------|-------------|----------|----------|
| API Gravity      |  | ASTM D7777 | 37.7       | <b>37.1</b> | ---      | ---      |

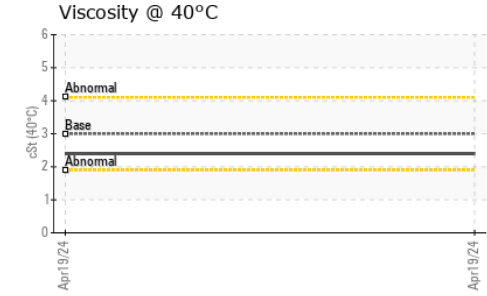
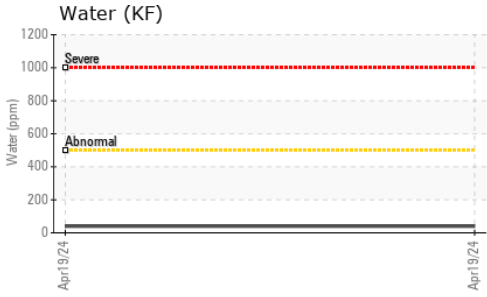
| CONTAMINANTS |     | method      | limit/base | current      | history1 | history2 |
|--------------|-----|-------------|------------|--------------|----------|----------|
| Silicon      | ppm | ASTM D5185m | <1.0       | <b>0</b>     | ---      | ---      |
| Sodium       | ppm | ASTM D5185m | <0.1       | <b>0</b>     | ---      | ---      |
| Potassium    | ppm | ASTM D5185m | <0.1       | <b>0</b>     | ---      | ---      |
| Water        | %   | ASTM D6304  | <0.05      | <b>0.003</b> | ---      | ---      |
| ppm Water    | ppm | ASTM D6304  | <500       | <b>40</b>    | ---      | ---      |
| % Gasoline   | %   | *In-House   | <0.50      | <b>0.0</b>   | ---      | ---      |
| % Biodiesel  | %   | *In-House   | <20.0      | <b>0.0</b>   | ---      | ---      |

| HEAVY METALS |     | method      | limit/base | current      | history1 | history2 |
|--------------|-----|-------------|------------|--------------|----------|----------|
| Aluminum     | ppm | ASTM D5185m | <0.1       | <b>0</b>     | ---      | ---      |
| Nickel       | ppm | ASTM D5185m | <0.1       | <b>0</b>     | ---      | ---      |
| Lead         | ppm | ASTM D5185m | <0.1       | <b>0</b>     | ---      | ---      |
| Vanadium     | ppm | ASTM D5185m | <0.1       | <b>0</b>     | ---      | ---      |
| Iron         | ppm | ASTM D5185m | <0.1       | <b>0</b>     | ---      | ---      |
| Calcium      | ppm | ASTM D5185m | <0.1       | <b>0</b>     | ---      | ---      |
| Magnesium    | ppm | ASTM D5185m | <0.1       | <b>0</b>     | ---      | ---      |
| Phosphorus   | ppm | ASTM D5185m | <0.1       | <b>2</b>     | ---      | ---      |
| Zinc         | ppm | ASTM D5185m | <0.1       | <b>&lt;1</b> | ---      | ---      |

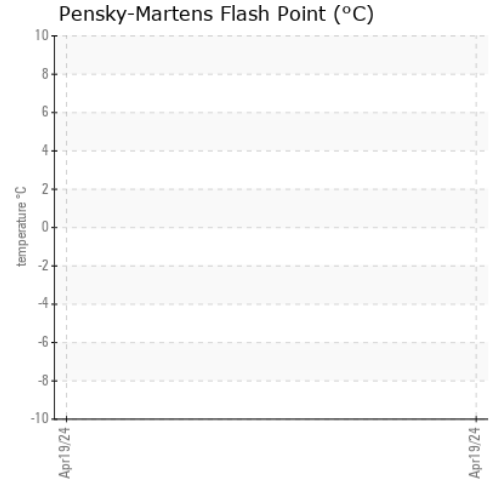
| SAMPLE IMAGES |  | method | limit/base | current   | history1 | history2 |
|---------------|--|--------|------------|---|----------|----------|
| Color         |  |        |            |  | no image | no image |
| Bottom        |  |        |            |  | no image | no image |



# FUEL REPORT



## GRAPHS



Certificate L2367

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)

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : DC0034662  
**Lab Number** : 06158215  
**Unique Number** : 10993638  
**Test Package** : DF-5 ( Additional Tests: API, Cetane, Fuel, PrtCount, Screen )

**Received** : 23 Apr 2024  
**Tested** : 06 May 2024  
**Diagnosed** : 06 May 2024 - Doug Bogart

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