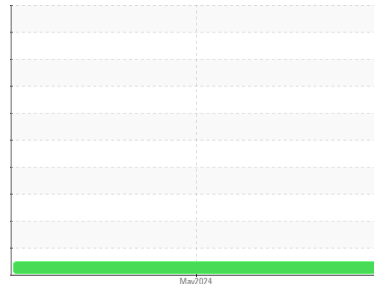




# FUEL REPORT

Sample Rating Trend



**NORMAL**



Area

[W156275]

Machine Id

**BACK TANK GEN 10 BACK TANK GEN 10**

Component

**Diesel Fuel**

Fluid

**DIESEL FUEL No. 2 (--- 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>WC0911334</b>   | ---      | ---      |
| Sample Date        | Client Info |             |            | <b>15 May 2024</b> | ---      | ---      |
| Machine Age        | hrs         | Client Info |            | <b>0</b>           | ---      | ---      |
| Sample Status      |             |             |            | <b>NORMAL</b>      | ---      | ---      |


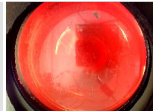
| PHYSICAL PROPERTIES |        | method      | limit/base | current     | history1 | history2 |
|---------------------|--------|-------------|------------|-------------|----------|----------|
| ASTM Color          | scalar | *ASTM D1500 |            | <b>L4.5</b> | ---      | ---      |
| Visc @ 40°C         | cSt    | ASTM D445   | 4.1        | <b>2.4</b>  | ---      | ---      |

| SULFUR CONTENT |     | method      | limit/base | current   | history1 | history2 |
|----------------|-----|-------------|------------|-----------|----------|----------|
| Sulfur         | ppm | ASTM D5185m |            | <b>4</b>  | ---      | ---      |
| Sulfur (UVF)   | ppm | ASTM D5453  |            | <b>15</b> | ---      | ---      |

| CONTAMINANTS |     | method      | limit/base | current      | history1 | history2 |
|--------------|-----|-------------|------------|--------------|----------|----------|
| Silicon      | ppm | ASTM D5185m | <1.0       | <b>&lt;1</b> | ---      | ---      |
| Sodium       | ppm | ASTM D5185m | <0.1       | <b>2</b>     | ---      | ---      |
| Potassium    | ppm | ASTM D5185m | <0.1       | <b>&lt;1</b> | ---      | ---      |
| Water        | %   | ASTM D6304  | <0.05      | <b>0.00</b>  | ---      | ---      |
| ppm Water    | ppm | ASTM D6304  | <500       | <b>0</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>&lt;1</b> | ---      | ---      |
| Vanadium     | ppm | ASTM D5185m | <0.1       | <b>&lt;1</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>&lt;1</b> | ---      | ---      |
| Phosphorus   | ppm | ASTM D5185m | <0.1       | <b>&lt;1</b> | ---      | ---      |
| Zinc         | ppm | ASTM D5185m | <0.1       | <b>0</b>     | ---      | ---      |

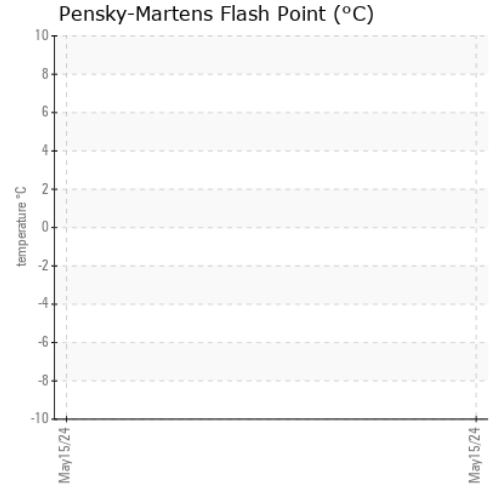
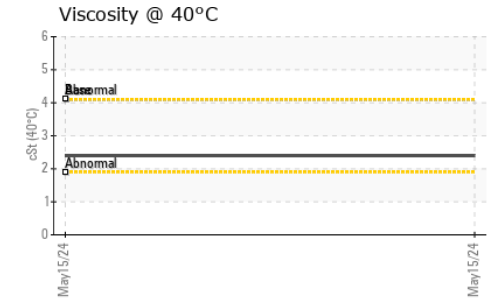
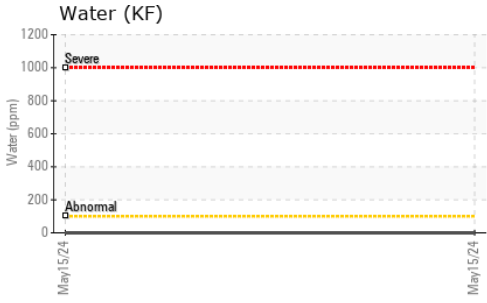
| SAMPLE IMAGES |  | method | limit/base | current | history1 | history2 |
|---------------|--|--------|------------|---------|----------|----------|
|---------------|--|--------|------------|---------|----------|----------|

|        |  |  |  |   |          |          |
|--------|--|--|--|---|----------|----------|
| Color  |  |  |  |  | no image | no image |
| Bottom |  |  |  |  | no image | no image |



# FUEL REPORT

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0911334      **Received** : 29 May 2024  
**Lab Number** : 06194547      **Tested** : 11 Jun 2024  
**Unique Number** : 11056670      **Diagnosed** : 11 Jun 2024 - Doug Bogart  
**Test Package** : DF-5 ( Additional Tests: PritCount, 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)

**NATIONAL POWER CORP**  
 4541 PRESLYN DR  
 RALEIGH, NC  
 US 27616  
 Contact: Brandon Daniels  
 Brandon.Daniels@natpow.com

T: (919)790-9714