



# FUEL REPORT

Sample Rating Trend



WATER



Machine Id  
**CC-BSR-ANDERSON**  
Component  
**Diesel Fuel**  
Fluid  
**DIESEL FUEL No. 2 (--- QTS)**

## DIAGNOSIS

### ▲ Recommendation

We advise that you follow the water drain-off procedure for this component. All other laboratory tests indicate that this sample meets specifications for No.2 ultra-low-sulfur diesel fuel.

### Corrosion

All component wear rates are normal.

### ▲ Contaminants

Free water present.

### Fuel Condition

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

| SAMPLE INFORMATION |             | method      | limit/base | current            | history1 | history2 |
|--------------------|-------------|-------------|------------|--------------------|----------|----------|
| Sample Number      | Client Info |             |            | <b>WC0884451</b>   | ---      | ---      |
| Sample Date        | Client Info |             |            | <b>03 Apr 2024</b> | ---      | ---      |
| Machine Age        | hrs         | Client Info |            | <b>0</b>           | ---      | ---      |
| Sample Status      |             |             |            | <b>SEVERE</b>      | ---      | ---      |

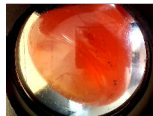

| PHYSICAL PROPERTIES |        | method      | limit/base | current     | history1 | history2 |
|---------------------|--------|-------------|------------|-------------|----------|----------|
| ASTM Color          | scalar | *ASTM D1500 |            | <b>L3.5</b> | ---      | ---      |
| Visc @ 40°C         | cSt    | ASTM D445   | 4.1        | <b>2.56</b> | ---      | ---      |

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

| CONTAMINANTS |     | method      | limit/base | current        | history1 | history2 |
|--------------|-----|-------------|------------|----------------|----------|----------|
| Silicon      | ppm | ASTM D5185m | <1.0       | <b>0</b>       | ---      | ---      |
| Sodium       | ppm | ASTM D5185m | <0.1       | <b>1</b>       | ---      | ---      |
| Potassium    | ppm | ASTM D5185m | <0.1       | <b>0</b>       | ---      | ---      |
| Water        | %   | ASTM D6304  | <0.05      | <b>▲ 0.016</b> | ---      | ---      |
| ppm Water    | ppm | ASTM D6304  | <500       | <b>▲ 169</b>   | ---      | ---      |
| % Gasoline   | %   | *In-House   | <0.50      | <b>0.0</b>     | ---      | ---      |
| % Biodiesel  | %   | *In-House   | <20.0      | <b>0.0</b>     | ---      | ---      |

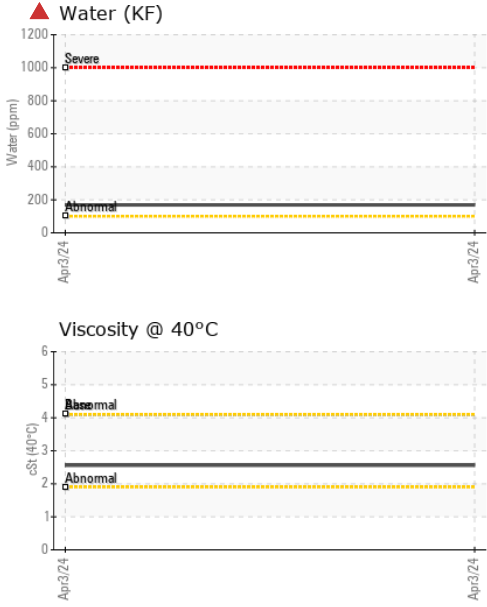
| MICROBIAL |          | method    | limit/base | current    | history1 | history2 |
|-----------|----------|-----------|------------|------------|----------|----------|
| Bacteria  | CFU/ml   | WC-Method | >=100000   | <b>0</b>   | ---      | ---      |
| Yeast     | CFU/ml   | WC-Method | >=100000   | <b>0</b>   | ---      | ---      |
| Mold      | Colonies | WC-Method | MODER      | <b>---</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>&lt;1</b> | ---      | ---      |
| Lead         | ppm | ASTM D5185m | <0.1       | <b>0</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>2</b>     | ---      | ---      |
| Magnesium    | ppm | ASTM D5185m | <0.1       | <b>0</b>     | ---      | ---      |
| Phosphorus   | ppm | ASTM D5185m | <0.1       | <b>4</b>     | ---      | ---      |
| Zinc         | ppm | ASTM D5185m | <0.1       | <b>0</b>     | ---      | ---      |

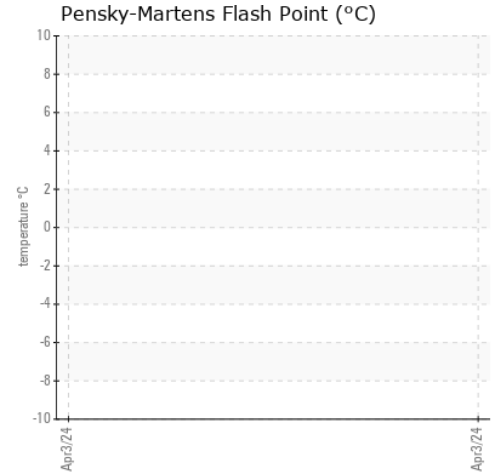
| SAMPLE IMAGES |  | method | limit/base | current   | history1 | history2 |
|---------------|--|--------|------------|---|----------|----------|
| Color         |  |        |            |  | no image | no image |
| Bottom        |  |        |            |  | no image | no image |



# FUEL REPORT



## GRAPHS



Certificate L2367

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.** : WC0884451  
**Lab Number** : 06144772  
**Unique Number** : 10969580  
**Test Package** : DF-5 ( Additional Tests: Bacteria, Screen )

**Received** : 10 Apr 2024  
**Tested** : 24 Apr 2024  
**Diagnosed** : 24 Apr 2024 - Angela Borella

**NATIONAL POWER CORP**  
 4541 PRESLYN DR  
 RALEIGH, NC  
 US 27616  
 Contact: BRANDON RICE  
 brandon.rice@natpow.com

T: (919)790-9714  
 F: (919)790-9714