

### **FUEL REPORT**

### Sample Rating Trend

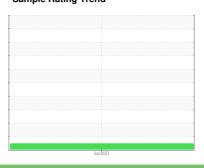
# **NORMAL**

## 80kW Roxobor health & rehab

Component

**Bottom Diesel Fuel** 

**NOT GIVEN (--- GAL)** 





#### 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. The amount and size of particulates present in the system are acceptable.

#### **Fuel Condition**

Sulfur value derived by ASTM D5453 method for ULSD validation.

|                            |        |                  |            | Jun 2023    |           |           |
|----------------------------|--------|------------------|------------|-------------|-----------|-----------|
| SAMPLE INFORM              | MATION | method           |            |             | history 1 | history 2 |
| Sample Number              |        | Client Info      |            | WC0783061   |           |           |
| Sample Date                |        | Client Info      |            | 19 Jun 2023 |           |           |
| Machine Age                | hrs    | Client Info      |            | 2271        |           |           |
| Sample Status              |        |                  |            | NORMAL      |           |           |
| PHYSICAL PROP              | ERTIES | method           | limit/base | current     | history 1 | history 2 |
| Specific Gravity           |        | *ASTM D1298      |            | 0.840       |           |           |
| Fuel Color                 | text   | *Visual Screen   |            | Red         |           |           |
| ASTM Color                 | scalar | *ASTM D1500      |            | L4.0        |           |           |
| Visc @ 40°C                | cSt    | ASTM D445        |            | 2.53        |           |           |
| Pensky-Martens Flash Point | °C     | *PMCC Calculated |            | 59          |           |           |
| Cloud Point                | °C     | ASTM D5771       |            | -12         |           |           |
| Pour Point                 | °C     | ASTM D5950       |            | -22         |           |           |
| SULFUR CONTE               | NΤ     | method           | limit/base | current     | history 1 | history 2 |
| Sulfur                     | ppm    | ASTM D5185m      |            | 19          |           |           |
| Sulfur (UVF)               | ppm    | ASTM D5453       |            | 24          |           |           |
| DISTILLATION               |        | method           | limit/base | current     | history 1 | history 2 |
| Initial Boiling Point      | °C     | ASTM D86         |            | 164         |           |           |
| 5% Distillation Point      | °C     | ASTM D86         |            | 189         |           |           |
| 10% Distill Point          | °C     | ASTM D86         |            | 200         |           |           |
| 15% Distillation Point     | °C     | ASTM D86         |            | 208         |           |           |
| 20% Distill Point          | °C     | ASTM D86         |            | 216         |           |           |
| 30% Distill Point          | °C     | ASTM D86         |            | 230         |           |           |
| 40% Distill Point          | °C     | ASTM D86         |            | 245         |           |           |
| 50% Distill Point          | °C     | ASTM D86         |            | 259         |           |           |
| 60% Distill Point          | °C     | ASTM D86         |            | 274         |           |           |
| 70% Distill Point          | °C     | ASTM D86         |            | 289         |           |           |
| 80% Distill Point          | °C     | ASTM D86         |            | 306         |           |           |
| 85% Distillation Point     | °C     | ASTM D86         |            | 315         |           |           |
| 90% Distill Point          | °C     | ASTM D86         |            | 326         |           |           |
| 95% Distillation Point     | °C     | ASTM D86         |            | 343         |           |           |
| Final Boiling Point        | °C     | ASTM D86         |            | 352         |           |           |
| Distillation Residue       | %      | ASTM D86         |            | 1.4         |           |           |
| Distillation Loss          | %      | ASTM D86         |            | 0.7         |           |           |
| IGNITION QUALIT            | ГΥ     | method           | limit/base | current     | history 1 | history 2 |
| API Gravity                |        | ASTM D7777       | 10.5       | 37.0        |           |           |
| Cetane Index               |        | ASTM D4737       | <40.0      | 48.2        |           |           |
| CONTAMINANTS               |        | method           | limit/base | current     | history 1 | history 2 |
| Silicon                    | ppm    | ASTM D5185m      | <1.0       | 0           |           |           |
| Sodium                     | ppm    | ASTM D5185m      | <0.1       | 0           |           |           |
| Potassium                  | ppm    | ASTM D5185m      | <0.1       | 0           |           |           |
| Water                      | %      | ASTM D6304       | < 0.05     | 0.004       |           |           |
| ppm Water                  | ppm    | ASTM D6304       | <500       | 43.9        |           |           |
| % Gasoline                 | %      | *In-House        | < 0.50     | 0.0         |           |           |
| o/ D' ' '                  | 0 /    | *1 11            | 00.0       | 4.0         |           |           |

%

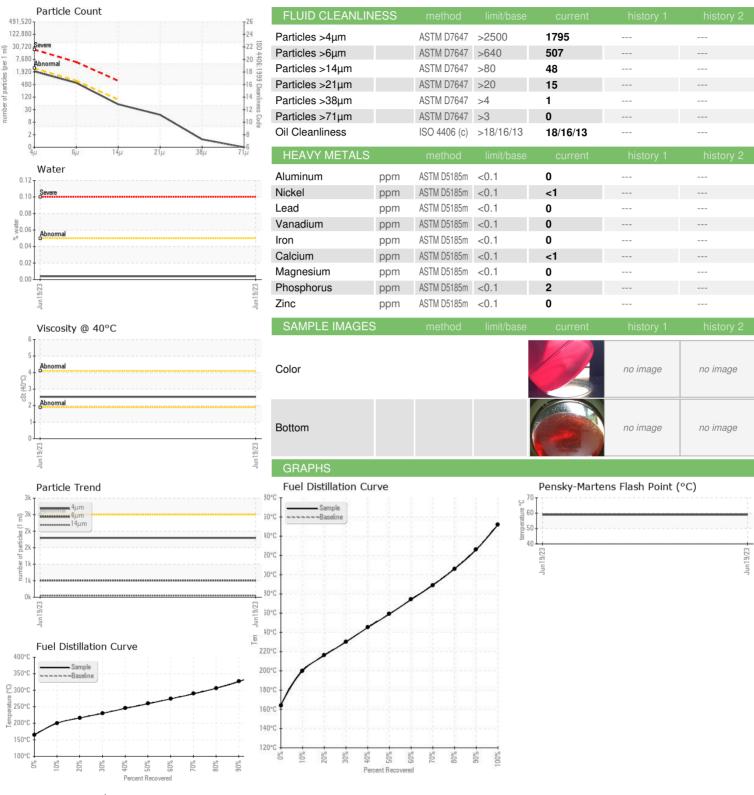
\*In-House <20.0

1.6

% Biodiesel



### **FUEL REPORT**





Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** 

: 05880408

: WC0783061 : 10525511

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 21 Jun 2023 Diagnosed : 05 Jul 2023

Diagnostician : Doug Bogart Test Package : DF-3 ( 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) **ALTERNATIVE POWER** 1000 NORTHGATE CT MORRISVILLE, NC

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