

# **FUEL REPORT**



ISO

SIS 4 - 455 FLEMING RD

Component **Diesel Fuel** 

{not provided} (--- GAL)

## **DIAGNOSIS**

#### Recommendation

Recommend pre-filtering before use. 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

There is a high amount of particulates present in the fuel. There is no bacteria or fungus (yeast and/or mold) indicated in the sample. The water content is negligible.

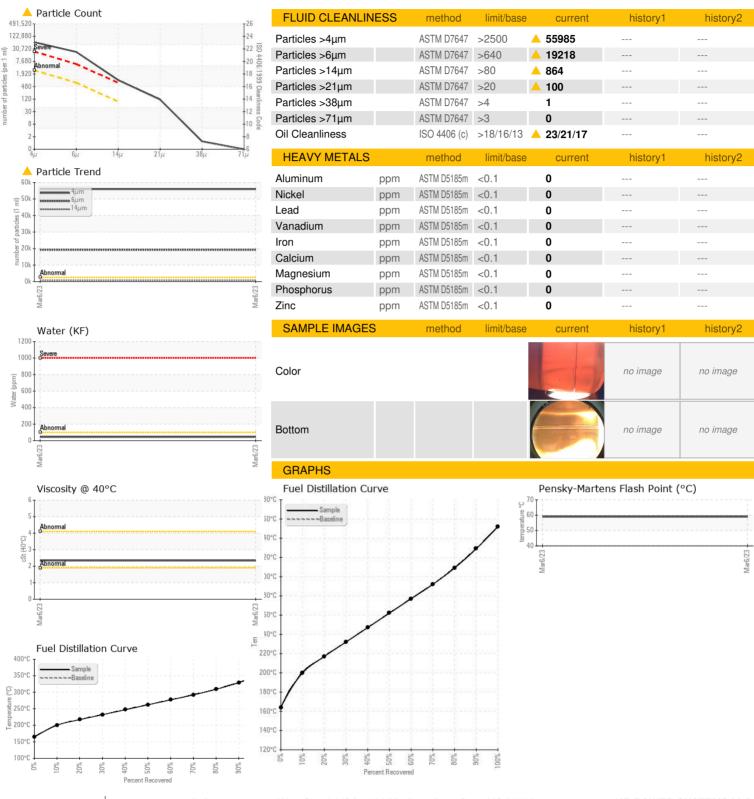
### **Fuel Condition**

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

|  |         |                      |            | Mar2023     |          |                 |
|--|---------|----------------------|------------|-------------|----------|-----------------|
| CAMPLE INFORM                          | AATIONI | ام مالم مما          |            |             | hintom d | la i a t a un c |
| SAMPLE INFORM                          | IATION  | method               | limit/base | current     | history1 | history2        |
| Sample Number                          |         | Client Info          |            | WC0798110   |          |                 |
| Sample Date                            |         | Client Info          |            | 06 Mar 2023 |          |                 |
| Machine Age                            | hrs     | Client Info          |            | 0           |          |                 |
| Sample Status                          |         |                      |            | ABNORMAL    |          |                 |
| PHYSICAL PROP                          | ERTIES  | method               | limit/base | current     | history1 | history2        |
| Specific Gravity                       |         | *ASTM D1298          |            | 0.841       |          |                 |
| Fuel Color                             | text    | *Visual Screen       |            | Orang       |          |                 |
| ASTM Color                             | scalar  | *ASTM D1500          |            | L3.5        |          |                 |
| Visc @ 40°C                            | cSt     | ASTM D445            |            | 2.34        |          |                 |
| Pensky-Martens Flash Point             | °C      | *PMCC Calculated     |            | 59          |          |                 |
| SULFUR CONTE                           | VT      | method               | limit/base | current     | history1 | history2        |
| Sulfur                                 | ppm     | ASTM D5185m          |            | 0           |          |                 |
| Sulfur (UVF)                           | ppm     | ASTM D5453           |            | 9           |          |                 |
| DISTILLATION                           |         | method               | limit/base | current     | history1 | history2        |
| Initial Boiling Point                  | °C      | ASTM D86             |            | 164         |          |                 |
| 5% Distillation Point                  | °C      | ASTM D86             |            | 188         |          |                 |
| 10% Distill Point                      | °C      | ASTM D86             |            | 200         |          |                 |
| 15% Distillation Point                 | °C      | ASTM D86             |            | 210         |          |                 |
| 20% Distill Point                      | °C      | ASTM D86             |            | 217         |          |                 |
| 30% Distill Point                      | °C      | ASTM D86             |            | 232         |          |                 |
| 40% Distill Point                      | °C      | ASTM D86             |            | 232         |          |                 |
| 50% Distill Point                      | °C      | ASTM D86             |            | 262         |          |                 |
| 60% Distill Point                      | °C      | ASTM D86             |            | 277         |          |                 |
| 70% Distill Point                      | °C      | ASTM D86             |            | 292         |          |                 |
| 80% Distill Point                      | °C      | ASTM D86             |            | 309         |          |                 |
|  |         |                      |            |             |          |                 |
| 85% Distillation Point                 | °C      | ASTM D86             |            | 318         |          |                 |
| 90% Distill Point                      |         | ASTM D86             |            | 329         |          |                 |
| 95% Distillation Point                 | °C      | ASTM D86             |            | 344         |          |                 |
| Final Boiling Point                    | °C      | ASTM D86             |            | 352         |          |                 |
| Distillation Residue Distillation Loss | %       | ASTM D86<br>ASTM D86 |            | 1.4<br>0.8  |          |                 |
|  |         |                      |            |             |          |                 |
| IGNITION QUALIT                        | ΙΥ      | method               | limit/base | current     | history1 | history2        |
| API Gravity                            |         | ASTM D7777           |            | 36.8        |          |                 |
| Cetane Index                           |         | ASTM D4737           | <40.0      | 48.3        |          |                 |
| CONTAMINANTS                           |         | method               | limit/base | current     | history1 | history2        |
| 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      | 44.6        |          |                 |
| % Gasoline                             | %       | *In-House            | < 0.50     | 0.0         |          |                 |
| % Biodiesel                            | %       | *In-House            | <20.0      | 2.6         |          |                 |



## **FUEL REPORT**





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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0798110 : 05833368

: 10446861

Recieved : 28 Apr 2023 Diagnosed

: 09 May 2023 Diagnostician : Doug Bogart Test Package : DF-2 ( 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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