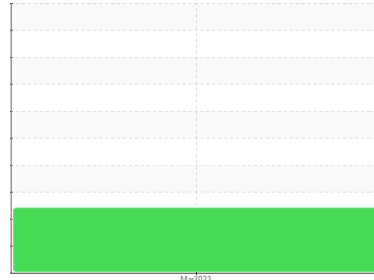


FUEL REPORT

Sample Rating Trend



ISO



Machine Id
DIESEL FUEL

Component
Diesel Fuel
Fluid

CLEAR DIESEL USING ADDITIVE (--- 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. The water content is negligible. There is no bacteria or fungus (yeast and/or mold) indicated in the sample.

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 | | | PE0000237 | --- | --- |
| Sample Date | Client Info | | | 29 Mar 2023 | --- | --- |
| Machine Age | hrs | Client Info | | 0 | --- | --- |
| Sample Status | | | | ABNORMAL | --- | --- |



| PHYSICAL PROPERTIES | | method | limit/base | current | history1 | history2 |
|---------------------|--------|-------------|------------|-------------|----------|----------|
| ASTM Color | scalar | *ASTM D1500 | | L2.0 | --- | --- |
| Visc @ 40°C | cSt | ASTM D445 | | 2.67 | --- | --- |

| SULFUR CONTENT | | method | limit/base | current | history1 | history2 |
|----------------|-----|-------------|------------|------------|----------|----------|
| Sulfur | ppm | ASTM D5185m | | 339 | --- | --- |
| Sulfur (UVF) | ppm | ASTM D5453 | | 15 | --- | --- |

| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|--------------|-----|-------------|------------|--------------|----------|----------|
| Silicon | ppm | ASTM D5185m | <1.0 | <1 | --- | --- |
| Sodium | ppm | ASTM D5185m | <0.1 | 0 | --- | --- |
| Potassium | ppm | ASTM D5185m | <0.1 | 0 | --- | --- |
| Water | % | ASTM D6304 | <0.05 | 0.003 | --- | --- |
| ppm Water | ppm | ASTM D6304 | <500 | 37.9 | --- | --- |
| % Gasoline | % | *In-House | <0.50 | 0.0 | --- | --- |
| % Biodiesel | % | *In-House | <20.0 | 0.0 | --- | --- |

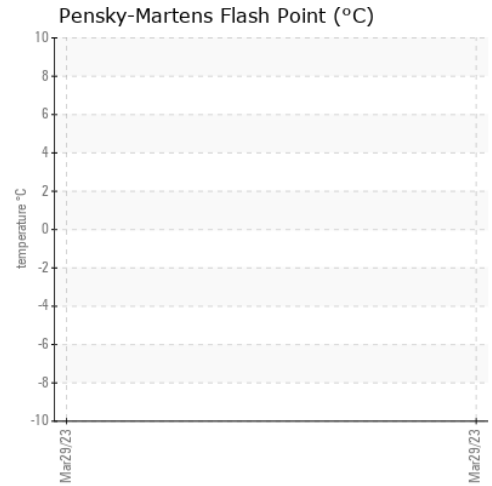
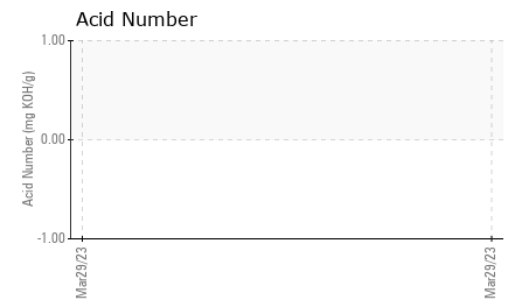
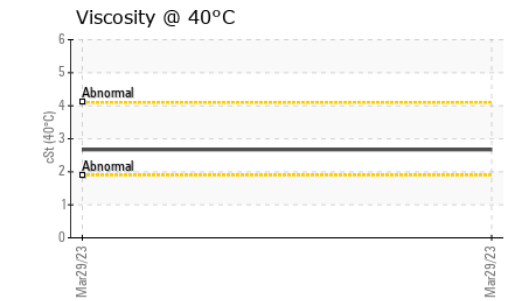
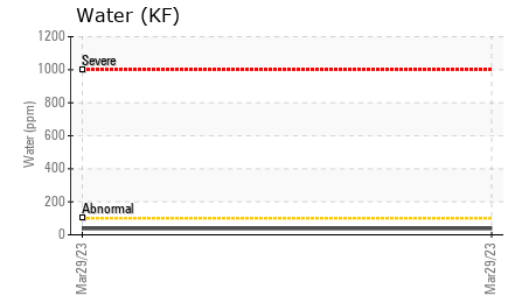
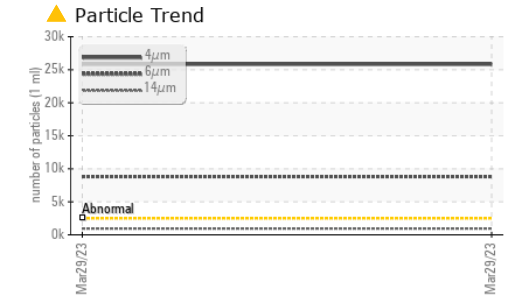
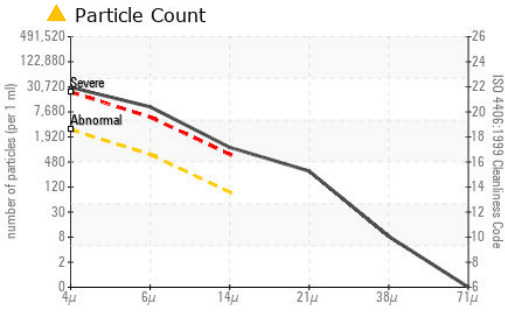
| FLUID CLEANLINESS | | method | limit/base | current | history1 | history2 |
|-------------------|--|--------------|------------|-------------------|----------|----------|
| Particles >4µm | | ASTM D7647 | >2500 | ▲ 25829 | --- | --- |
| Particles >6µm | | ASTM D7647 | >640 | ▲ 8818 | --- | --- |
| Particles >14µm | | ASTM D7647 | >80 | ▲ 943 | --- | --- |
| Particles >21µm | | ASTM D7647 | >20 | ▲ 255 | --- | --- |
| Particles >38µm | | ASTM D7647 | >4 | ▲ 7 | --- | --- |
| Particles >71µm | | ASTM D7647 | >3 | 0 | --- | --- |
| Oil Cleanliness | | ISO 4406 (c) | >18/16/13 | ▲ 22/20/17 | --- | --- |

| HEAVY METALS | | method | limit/base | current | history1 | history2 |
|--------------|-----|-------------|------------|--------------|----------|----------|
| Aluminum | ppm | ASTM D5185m | <0.1 | <1 | --- | --- |
| Nickel | ppm | ASTM D5185m | <0.1 | <1 | --- | --- |
| Lead | ppm | ASTM D5185m | <0.1 | 0 | --- | --- |
| Vanadium | ppm | ASTM D5185m | <0.1 | 0 | --- | --- |
| Iron | ppm | ASTM D5185m | <0.1 | <1 | --- | --- |
| Calcium | ppm | ASTM D5185m | <0.1 | 2 | --- | --- |
| Magnesium | ppm | ASTM D5185m | <0.1 | <1 | --- | --- |
| Phosphorus | ppm | ASTM D5185m | <0.1 | 6 | --- | --- |
| Zinc | ppm | ASTM D5185m | <0.1 | <1 | --- | --- |

| 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. : PE0000237 **Received** : 29 Mar 2023
Lab Number : 05805787 **Tested** : 05 Apr 2023
Unique Number : 10403316 **Diagnosed** : 05 Apr 2023 - Doug Bogart
Test Package : DF-5 (Additional Tests: Screen, TAN Man)

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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