



FUEL REPORT

| | |
|----------------|---------------|
| CORROSION | NORMAL |
| CONTAMINANTS | NORMAL |
| FUEL CONDITION | NORMAL |

Area
[PMOAS3186677]
 Machine Id
KOHLER 150REOZJF 3032955
 Component
Diesel Fuel
 Fluid
No.2 DIESEL FUEL (ULTRALOW SULPHUR) (--- GAL)

RECOMMENDATION

All laboratory tests indicate that this sample meets specifications for No.2 ultra-low-sulfur diesel fuel.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | DC0034037 | DC0023547 | DC0019293 |
| Sample Date | | Client Info | | 21 Feb 2024 | 06 Feb 2023 | 17 Jan 2022 |
| Machine Age | hrs | Client Info | | 0 | 0 | 377 |
| Sample Status | | | | NORMAL | ATTENTION | NORMAL |

CORROSION

All metal levels are normal indicating no corrosion in the system.

| | | | | | | |
|----------|-----|-------------|------|--------------|----|----|
| Aluminum | ppm | ASTM D5185m | <0.1 | 0 | 0 | <1 |
| Nickel | ppm | ASTM D5185m | <0.1 | <1 | 0 | 0 |
| Lead | ppm | ASTM D5185m | <0.1 | 0 | <1 | 0 |
| Vanadium | ppm | ASTM D5185m | <0.1 | 0 | 0 | 0 |
| Iron | ppm | ASTM D5185m | <0.1 | 0 | 0 | 0 |

CONTAMINANTS

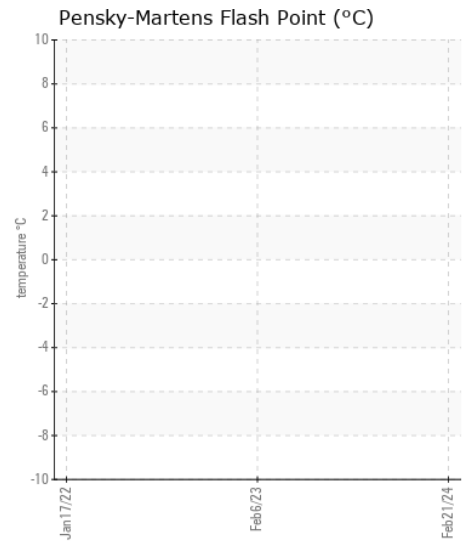
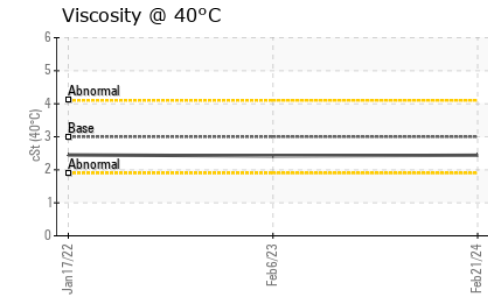
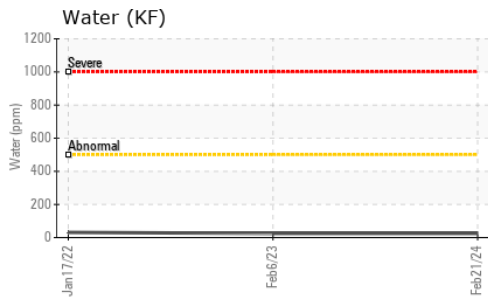
The water content is negligible. There is no bacteria or fungus (yeast and/or mold) indicated in the sample. There is no indication of any contamination in the fuel.

| | | | | | | |
|-----------------|-----|--------------|-----------|--------------|------------|----------|
| Silicon | ppm | ASTM D5185m | <1.0 | <1 | 0 | 0 |
| Sodium | ppm | ASTM D5185m | <0.1 | <1 | 0 | 0 |
| Potassium | ppm | ASTM D5185m | <0.1 | <1 | <1 | 0 |
| Water | % | ASTM D6304 | <0.05 | 0.002 | 0.002 | 0.003 |
| ppm Water | ppm | ASTM D6304 | <500 | 25 | 25.0 | 31.4 |
| Particles >4µm | | ASTM D7647 | >2500 | --- | ● 23548 | 10938 |
| Particles >6µm | | ASTM D7647 | >640 | --- | ● 7113 | 2833 |
| Particles >14µm | | ASTM D7647 | >80 | --- | ● 963 | 229 |
| Particles >21µm | | ASTM D7647 | >20 | --- | ● 260 | 31 |
| Particles >38µm | | ASTM D7647 | >4 | --- | ● 20 | 0 |
| Particles >71µm | | ASTM D7647 | >3 | --- | 0 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >18/16/13 | --- | ● 22/20/17 | 21/19/15 |
| % Gasoline | % | *In-House | <0.50 | 0.0 | 0.0 | 0.0 |
| % Biodiesel | % | *In-House | <20.0 | 0.0 | 0.0 | 0.0 |
| Calcium | ppm | ASTM D5185m | <0.1 | <1 | 0 | 0 |
| Magnesium | ppm | ASTM D5185m | <0.1 | <1 | 0 | <1 |
| Phosphorus | ppm | ASTM D5185m | <0.1 | 0 | 2 | 0 |
| Zinc | ppm | ASTM D5185m | <0.1 | 0 | <1 | 0 |

FUEL CONDITION

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

| | | | | | | |
|--------------|--------|-------------|------|-------------|------|------|
| ASTM Color | scalar | *ASTM D1500 | | L4.5 | L4.5 | L5.0 |
| Visc @ 40°C | cSt | ASTM D445 | 3.0 | 2.44 | 2.42 | 2.45 |
| Sulfur | ppm | ASTM D5185m | 10 | 0 | <1 | 0 |
| Sulfur (UVF) | ppm | ASTM D5453 | | 7 | 8 | 11 |
| API Gravity | | ASTM D7777 | 37.7 | 36.7 | 37.3 | 37.4 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DC0034037 **Received** : 22 Feb 2024
Lab Number : 06098062 **Tested** : 27 Feb 2024
Unique Number : 10896292 **Diagnosed** : 27 Feb 2024 - Doug Bogart
Test Package : DF-5 (Additional Tests: API, Cetane, Fuel, Screen)

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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)