



FUEL REPORT

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

Area
[PMIAS3230917]
 Machine Id
GENERAC 251KW 3001264495 - SAGAMORE SPIRITS
 Component
Diesel Fuel
 Fluid
{not provided} (--- GAL)

RECOMMENDATION

We advise that you filter this fluid before use. All laboratory tests indicate that this sample meets specifications for No.2 low-sulfur diesel fuel.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | DC0036979 | DC0020404 | DC0019529 |
| Sample Date | | Client Info | | 05 Jun 2024 | 28 May 2023 | 11 Apr 2022 |
| Machine Age | hrs | Client Info | | 201 | 176 | 148 |
| Sample Status | | | | ABNORMAL | ATTENTION | ABNORMAL |

CORROSION

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

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

CONTAMINANTS

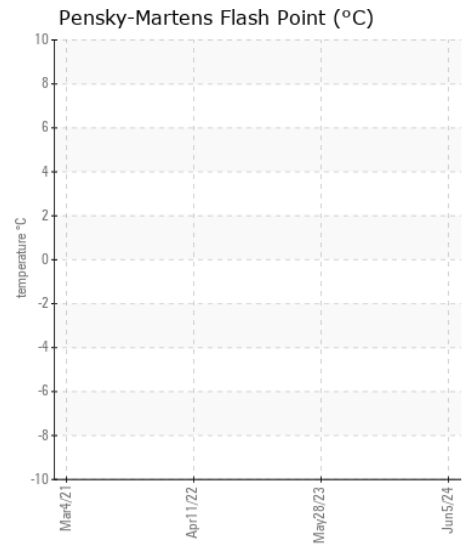
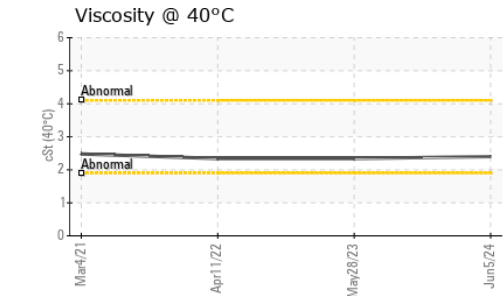
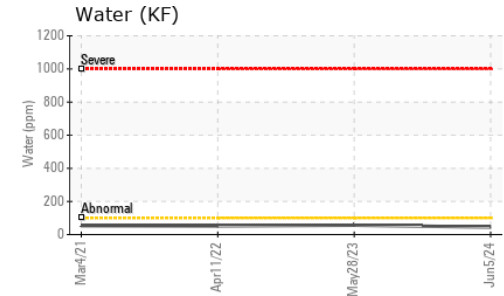
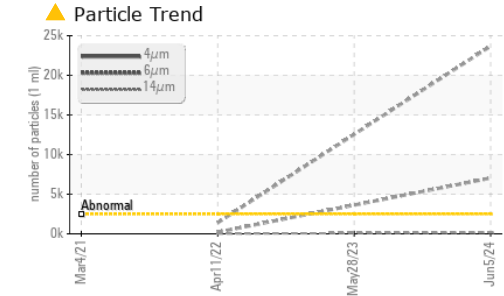
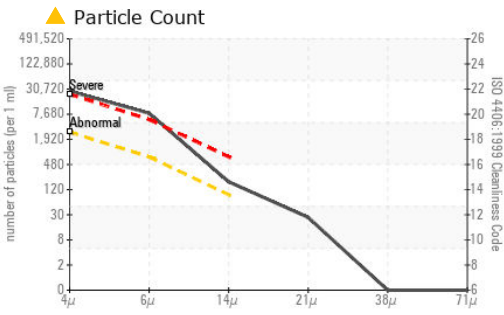
There is a high amount of particulates present in the fuel. The water content is negligible. There is no bacteria or fungus (yeast and/or mold) indicated in the sample. There is no indication of any contamination in the fuel.

| | | | | | | |
|-----------------|-----|--------------|-----------|-------------------|-------|----------|
| Silicon | ppm | ASTM D5185m | <1.0 | <1 | 0 | ▲ 35 |
| Sodium | ppm | ASTM D5185m | <0.1 | 1 | 0 | 0 |
| Potassium | ppm | ASTM D5185m | <0.1 | <1 | <1 | 0 |
| Water | % | ASTM D6304 | <0.05 | 0.004 | 0.005 | 0.005 |
| ppm Water | ppm | ASTM D6304 | <500 | 45 | 56.5 | 52.5 |
| Particles >4µm | | ASTM D7647 | >2500 | ▲ 23686 | --- | 1409 |
| Particles >6µm | | ASTM D7647 | >640 | ▲ 7043 | --- | 213 |
| Particles >14µm | | ASTM D7647 | >80 | ▲ 163 | --- | 13 |
| Particles >21µm | | ASTM D7647 | >20 | ▲ 23 | --- | 4 |
| Particles >38µm | | ASTM D7647 | >4 | 0 | --- | 0 |
| Particles >71µm | | ASTM D7647 | >3 | 0 | --- | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >18/16/13 | ▲ 22/20/15 | --- | 18/15/11 |
| % 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 | 3 | 0 | 2 |
| Magnesium | ppm | ASTM D5185m | <0.1 | <1 | 0 | 0 |
| Phosphorus | ppm | ASTM D5185m | <0.1 | 5 | 0 | <1 |
| Zinc | ppm | ASTM D5185m | <0.1 | 0 | 0 | 0 |

FUEL CONDITION

Sulfur value derived by ASTM D5453 method for ULSD validation.

| | | | | | | |
|--------------|--------|-------------|--|-------------|------|------|
| ASTM Color | scalar | *ASTM D1500 | | L4.0 | 3.0 | L3.5 |
| Visc @ 40°C | cSt | ASTM D445 | | 2.4 | 2.34 | 2.34 |
| Sulfur | ppm | ASTM D5185m | | 9 | 0 | 0 |
| Sulfur (UVF) | ppm | ASTM D5453 | | 17 | 10 | 7 |
| API Gravity | | ASTM D7777 | | 37.0 | --- | 36.9 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DC0036979
Lab Number : 06220267
Unique Number : 11098464
Test Package : DF-5 (Additional Tests: API, Cetane, Fuel, PrtCount, 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)