



# FUEL REPORT

|                |               |
|----------------|---------------|
| CORROSION      | <b>NORMAL</b> |
| CONTAMINANTS   | <b>NORMAL</b> |
| FUEL CONDITION | <b>NORMAL</b> |

Area

[PMO3162020]

Machine Id

1500RE0 2243094

Component

Diesel Fuel

Fluid

No.2 DIESEL FUEL (ULTRALOW SULPHUR) (--- QTS)

## RECOMMENDATION

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

## CORROSION

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

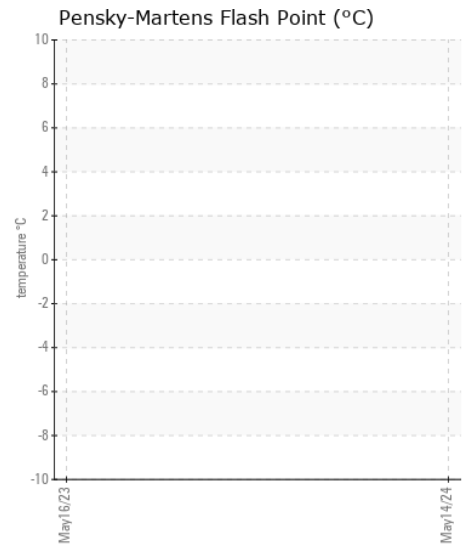
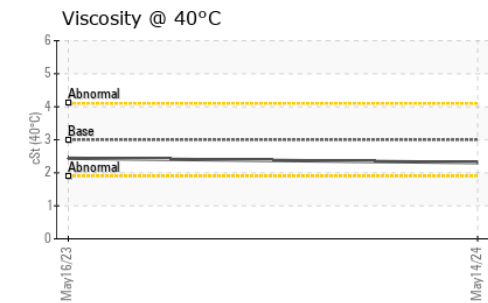
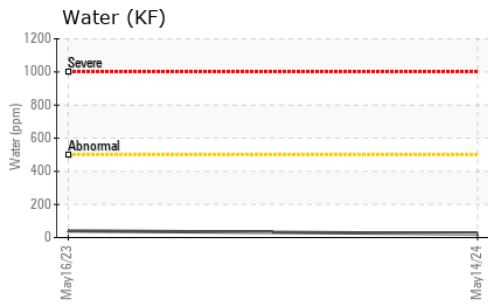
## CONTAMINANTS

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.

## FUEL CONDITION

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

| Test            | UOM    | Method       | Limit/Abn | Current            | History1    | History2 |
|-----------------|--------|--------------|-----------|--------------------|-------------|----------|
| Sample Number   |        | Client Info  |           | <b>DC0036983</b>   | DC0029080   | ---      |
| Sample Date     |        | Client Info  |           | <b>14 May 2024</b> | 16 May 2023 | ---      |
| Machine Age     | hrs    | Client Info  |           | <b>5104</b>        | 478         | ---      |
| Sample Status   |        |              |           | <b>NORMAL</b>      | NORMAL      | ---      |
| Aluminum        | ppm    | ASTM D5185m  | <0.1      | <b>0</b>           | 0           | ---      |
| Nickel          | ppm    | ASTM D5185m  | <0.1      | <b>0</b>           | 0           | ---      |
| Lead            | ppm    | ASTM D5185m  | <0.1      | <b>0</b>           | 0           | ---      |
| Vanadium        | ppm    | ASTM D5185m  | <0.1      | <b>0</b>           | 0           | ---      |
| Iron            | ppm    | ASTM D5185m  | <0.1      | <b>0</b>           | 0           | ---      |
| Silicon         | ppm    | ASTM D5185m  | <1.0      | <b>&lt;1</b>       | 0           | ---      |
| Sodium          | ppm    | ASTM D5185m  | <0.1      | <b>0</b>           | 0           | ---      |
| Potassium       | ppm    | ASTM D5185m  | <0.1      | <b>&lt;1</b>       | <1          | ---      |
| Water           | %      | ASTM D6304   | <0.05     | <b>0.002</b>       | 0.004       | ---      |
| ppm Water       | ppm    | ASTM D6304   | <500      | <b>23</b>          | 40.3        | ---      |
| Particles >4µm  |        | ASTM D7647   | >2500     | <b>---</b>         | 3941        | ---      |
| Particles >6µm  |        | ASTM D7647   | >640      | <b>---</b>         | 1434        | ---      |
| Particles >14µm |        | ASTM D7647   | >80       | <b>---</b>         | 163         | ---      |
| Particles >21µm |        | ASTM D7647   | >20       | <b>---</b>         | 45          | ---      |
| Particles >38µm |        | ASTM D7647   | >4        | <b>---</b>         | 1           | ---      |
| Particles >71µm |        | ASTM D7647   | >3        | <b>---</b>         | 0           | ---      |
| Oil Cleanliness |        | ISO 4406 (c) | >18/16/13 | <b>---</b>         | 19/18/15    | ---      |
| % Gasoline      | %      | *In-House    | <0.50     | <b>0.0</b>         | 0.0         | ---      |
| % Biodiesel     | %      | *In-House    | <20.0     | <b>0.0</b>         | 0.0         | ---      |
| Calcium         | ppm    | ASTM D5185m  | <0.1      | <b>0</b>           | <1          | ---      |
| Magnesium       | ppm    | ASTM D5185m  | <0.1      | <b>0</b>           | <1          | ---      |
| Phosphorus      | ppm    | ASTM D5185m  | <0.1      | <b>16</b>          | 0           | ---      |
| Zinc            | ppm    | ASTM D5185m  | <0.1      | <b>0</b>           | 0           | ---      |
| ASTM Color      | scalar | *ASTM D1500  |           | <b>L2.5</b>        | 3.0         | ---      |
| Visc @ 40°C     | cSt    | ASTM D445    | 3.0       | <b>2.31</b>        | 2.44        | ---      |
| Sulfur          | ppm    | ASTM D5185m  | 10        | <b>0</b>           | 0           | ---      |
| Sulfur (UVF)    | ppm    | ASTM D5453   |           | <b>10</b>          | 10          | ---      |
| API Gravity     |        | ASTM D7777   | 37.7      | <b>36.9</b>        | ---         | ---      |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : DC0036983  
**Lab Number** : 06188183  
**Unique Number** : 11044935  
**Test Package** : DF-5 ( Additional Tests: API, Cetane, Fuel, PrtCount, Screen )

**Received** : 22 May 2024  
**Tested** : 04 Jun 2024  
**Diagnosed** : 04 Jun 2024 - Doug Bogart

**KELLY GENERATOR & EQUIPMENT INC**  
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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)