

FUEL REPORT

Area Quality Technology Services [17871] [Quality Technology Services] DAY TANK 2

Diesel Fuel

Fluid No.2 DIESEL FUEL (ULTRALOW SULPHUR) (--- GAL)

DIAGNOSIS

Recommendation

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

Corrosion

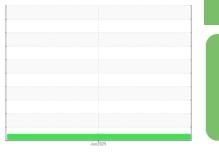
All metal levels are normal indicating no corrosion in the system.

Contaminants

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

Fuel Condition

Sulfur value derived by ASTM D5453 method for ULSD validation.



Sample Rating Trend



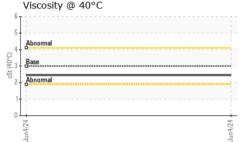
NORMAL

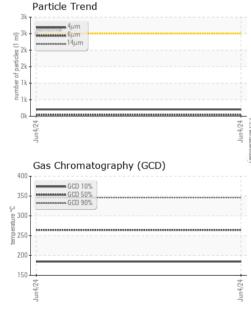
| SAMPLE INFORM | IATION | method | limit/base | current | history1 | history2 |
|----------------------------|--------|------------------|------------|-------------|----------|----------|
| Sample Number | | Client Info | | WC06218697 | | |
| Sample Date | | Client Info | | 04 Jun 2024 | | |
| Machine Age | hrs | Client Info | | 0 | | |
| Sample Status | | | | NORMAL | | |
| PHYSICAL PROP | ERTIES | method | limit/base | current | history1 | history2 |
| Fuel Color | text | *Visual Screen | Yllow | Red | | |
| ASTM Color | scalar | *ASTM D1500 | | L4.5 | | |
| Visc @ 40°C | cSt | ASTM D445 | 3.0 | 2.45 | | |
| Pensky-Martens Flash Point | °C | *PMCC Calculated | 52 | 64.3 | | |
| SULFUR CONTEI | NT | method | limit/base | current | history1 | history2 |
| Sulfur | ppm | ASTM D5185m | 10 | 83 | | |
| Sulfur (UVF) | ppm | ASTM D5453 | | 47 | | |
| DISTILLATION | | method | limit/base | current | history1 | history2 |
| Initial Boiling Point | °C | ASTM D86 | 165 | 175 | | |
| 5% Distillation Point | °C | ASTM D86 | | 197 | | |
| 10% Distill Point | °C | ASTM D86 | 201 | 206 | | |
| 15% Distillation Point | °C | ASTM D86 | | 213 | | |
| 20% Distill Point | °C | ASTM D86 | 216 | 220 | | |
| 30% Distill Point | °C | ASTM D86 | 230 | 235 | | |
| 40% Distill Point | °C | ASTM D86 | 243 | 248 | | |
| 50% Distill Point | °C | ASTM D86 | 255 | 262 | | |
| 60% Distill Point | °C | ASTM D86 | 267 | 276 | | |
| 70% Distill Point | °C | ASTM D86 | 280 | 290 | | |
| 80% Distill Point | °C | ASTM D86 | 295 | 305 | | |
| 85% Distillation Point | °C | ASTM D86 | | 315 | | |
| 90% Distill Point | °C | ASTM D86 | 310 | 326 | | |
| 95% Distillation Point | °C | ASTM D86 | | 344 | | |
| Final Boiling Point | °C | ASTM D86 | 341 | 362 | | |
| IGNITION QUALI | ΓY | method | limit/base | current | history1 | history2 |
| API Gravity | | ASTM D7777 | 37.7 | 36 | | |
| Cetane Index | | ASTM D4737 | <40.0 | 47 | | |
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | <1.0 | 0 | | |
| Sodium | ppm | ASTM D5185m | <0.1 | 2 | | |
| Potassium | ppm | ASTM D5185m | <0.1 | 1 | | |
| Water | % | ASTM D6304 | <0.05 | 0.007 | | |
| ppm Water | ppm | ASTM D6304 | <500 | 72 | | |
| % Gasoline | % | *In-House | <0.50 | 0.0 | | |
| % Biodiesel | % | *In-House | <20.0 | 0.0 | | |



FUEL REPORT

| | icle Count | t | | | |
|---|--------------------------|-------------|------|-----|-----------------|
| 91,520 | | | | | T ²⁶ |
| 22,880 - | | | | | -24 |
| 30,720 Severe | | | | | -22 |
| 7,680 Abnorm | al | | | | -20 |
| 1,920 | | 1.0 | | | -18 |
| 480 | | | | | -16 |
| 120 | | 1 | | | -14 |
| 30- | | - | | | -12 |
| 8- 2- | | | | | -10 |
| | | | | | +8 |
| | | | - | | 1000 |
| 0. 4µ | _{6μ} er (KF) | 14µ | 21/µ | 38µ | 71µ |
| 0 4μ Wat 1200 1000 800 800 400 400 | er (KF) | 14μ | 21µ | 38µ | 6 |
| 04 4µ 1200 1000 800 600 Abno | er (KF) | 14 <u>µ</u> | 21µ | 38µ | 6 |
| Wat 1200 1000 800 600 400 200 | er (KF) | 14μ | 21µ | 38µ | 6 71µ |
| 0 4µ Wat 1200 1000 800 800 600 400 200 | er (KF) | 14μ | 21/µ | 38µ | 6 |





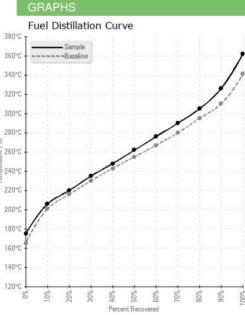
| FLUID CLEANLIN | NESS | method | limit/base | current | history1 | history2 |
|-----------------|------|--------------|------------|----------|----------|----------|
| Particles >4µm | | ASTM D7647 | >2500 | 204 | | |
| Particles >6µm | | ASTM D7647 | >640 | 38 | | |
| Particles >14µm | | ASTM D7647 | >80 | 7 | | |
| Particles >21µm | | ASTM D7647 | >20 | 1 | | |
| Particles >38µm | | ASTM D7647 | >4 | 0 | | |
| Particles >71µm | | ASTM D7647 | >3 | 0 | | |
| Oil Cleanliness | | ISO 4406 (c) | >18/16/13 | 15/12/10 | | |
| HEAVY METALS | | method | limit/base | current | history1 | history2 |
| Aluminum | ppm | ASTM D5185m | <0.1 | 0 | | |
| Nickel | ppm | ASTM D5185m | <0.1 | 0 | | |
| Lead | ppm | ASTM D5185m | <0.1 | 0 | | |
| Vanadium | ppm | ASTM D5185m | <0.1 | 0 | | |
| Iron | ppm | ASTM D5185m | <0.1 | 0 | | |
| Calcium | ppm | ASTM D5185m | <0.1 | 0 | | |
| Magnesium | ppm | ASTM D5185m | <0.1 | 3 | | |
| Phosphorus | ppm | ASTM D5185m | <0.1 | 0 | | |
| Zinc | ppm | ASTM D5185m | <0.1 | 0 | | |
| SAMPLE IMAGES | | method | limit/base | current | history1 | history2 |
| Color | | | | | no image | no image |
| | | | | | | |

8

월 70

60

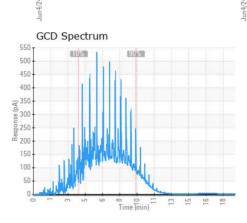
Bottom



Pensky-Martens Flash Point (°C)

no image

no image





PETROLEUM RECOVERY SERVICES Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC06218697 Received : 24 Jun 2024 210 POWELL DR Sample No. Lab Number : 06218697 Tested : 27 Jun 2024 SUMMERVILLE, SC : 27 Jun 2024 - Elizabeth Valachovic Unique Number : 11096894 Diagnosed US 29483 Test Package : DF-2 (Additional Tests: Fuel, Screen) Contact: AJAY EL Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. Ajay@prsfuel.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (843)225-1777 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: PETSUM [WUSCAR] 06218697 (Generated: 06/29/2024 19:26:17) Rev: 1

Contact/Location: AJAY EL - PETSUM

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