

Area HILTON HEAD PSD [4985] [HILTON HEAD PSD] DAY

Diesel Fuel

Fluid No.2 DIESEL FUEL (ULTRALOW SULPHUR) (150 GAL)

DIAGNOSIS

A Recommendation

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

Corrosion

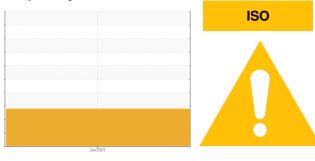
All metal levels are normal indicating no corrosion in the system.

Contaminants

There is a high amount of particulates present in the fuel. Light concentration of visible dirt/debris 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

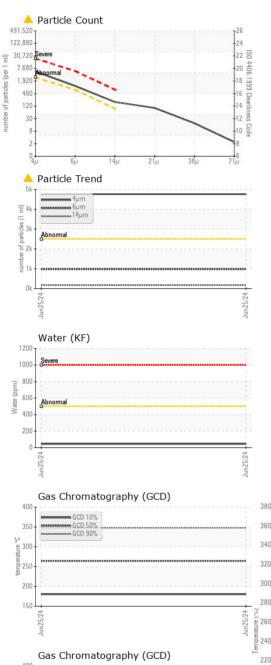
Sulfur value derived by ASTM D5453 method for ULSD validation. Sulfur level is acceptable for ULSD specification.

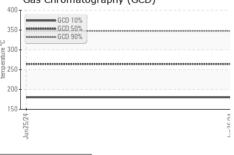


| SAMPLE INFORM | IATION | method | limit/base | current | history1 | history2 |
|----------------------------|--------|------------------|------------|-------------|----------|----------|
| Sample Number | | Client Info | | WC0957809 | | |
| Sample Date | | Client Info | | 25 Jun 2024 | | |
| Machine Age | hrs | Client Info | | 0 | | |
| Sample Status | | | | ABNORMAL | | |
| PHYSICAL PROP | ERTIES | method | limit/base | current | history1 | history2 |
| Fuel Color | text | *Visual Screen | Yllow | Red | | |
| ASTM Color | scalar | *ASTM D1500 | | L4.5 | | |
| Pensky-Martens Flash Point | °C | *PMCC Calculated | 52 | 60.7 | | |
| SULFUR CONTENT | | method | limit/base | current | history1 | history2 |
| Sulfur | ppm | ASTM D5185m | 10 | 0 | | |
| Sulfur (UVF) | ppm | ASTM D5453 | | 8 | | |
| DISTILLATION | | method | limit/base | current | history1 | history2 |
| Initial Boiling Point | °C | ASTM D86 | 165 | 171 | | |
| 5% Distillation Point | °C | ASTM D86 | | 193 | | |
| 10% Distill Point | °C | ASTM D86 | 201 | 203 | | |
| 15% Distillation Point | °C | ASTM D86 | | 211 | | |
| 20% Distill Point | °C | ASTM D86 | 216 | 219 | | |
| 30% Distill Point | °C | ASTM D86 | 230 | 234 | | |
| 40% Distill Point | °C | ASTM D86 | 243 | 248 | | |
| 50% Distill Point | °C | ASTM D86 | 255 | 261 | | |
| 60% Distill Point | °C | ASTM D86 | 267 | 275 | | |
| 70% Distill Point | °C | ASTM D86 | 280 | 289 | | |
| 80% Distill Point | °C | ASTM D86 | 295 | 305 | | |
| 85% Distillation Point | | ASTM D86 | | 316 | | |
| 90% Distill Point | °C | ASTM D86 | 310 | 326 | | |
| 95% Distillation Point | °C | ASTM D86 | | 343 | | |
| Final Boiling Point | °C | ASTM D86 | 341 | 359 | | |
| IGNITION QUALI | ΓY | method | limit/base | current | history1 | history2 |
| API Gravity | | ASTM D7777 | 37.7 | 36 | | |
| Cetane Index | | ASTM D4737 | <40.0 | 48 | | |
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | <1.0 | 0 | | |
| Sodium | ppm | ASTM D5185m | <0.1 | <1 | | |
| Potassium | ppm | ASTM D5185m | <0.1 | 0 | | |
| Water | % | ASTM D6304 | < 0.05 | 0.004 | | |
| ppm Water | ppm | ASTM D6304 | <500 | 45 | | |
| % Gasoline | % | *In-House | <0.50 | 0.0 | | |
| % Biodiesel | % | *In-House | <20.0 | 0.0 | | |

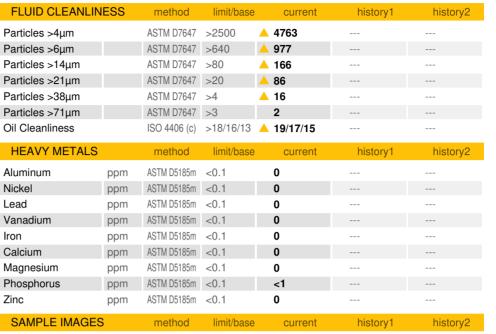


FUEL REPORT





| | 5 | Percent Recovered | | | | | | | | | | |
|---------|----|-------------------|-------|-------|-------|------|-------|-------|-------|-------|-------|------|
| | VC | 120°C | 10% - | 20% - | 30% - | 40%- | 50% + | - %09 | - %0L | 80% + | + %06 | 100% |
| | | 140°C - | | | | | | | | | | |
| | | 160°C | | | | | | | | | | |
| ******* | | 180°C - | / | | | | | | | | | |
| | | 200°C - | 1 | - | | | | | | | | |

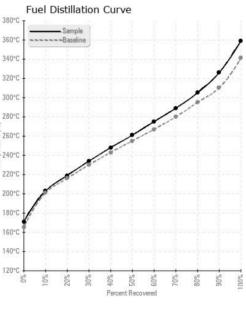


Color

Bottom



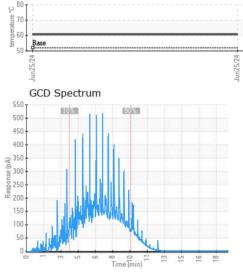
GRAPHS



Pensky-Martens Flash Point (°C)

no image

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: WC0957809 Sample No. Received : 25 Jun 2024 210 POWELL DR Lab Number : 06220614 Tested : 01 Jul 2024 SUMMERVILLE, SC Unique Number : 11098811 Diagnosed : 01 Jul 2024 - Elizabeth Valachovic 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)

Contact/Location: AJAY EL - PETSUM

PETROLEUM RECOVERY SERVICES

Page 2 of 2

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Report Id: PETSUM [WUSCAR] 06220614 (Generated: 07/02/2024 04:16:27) Rev: 2