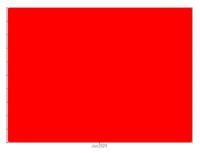


FUEL REPORT

GRAND STRAND HEALTH SOUTH STRAND MEDICAL CENTER [17816] [GRAND STRAND HEALTH SOUTH STRAND MEDICAL CENTER] DAY 1

Diesel Fuel

No.2 DIESEL FUEL (ULTRALOW SULPHUR) (100 GAL)



Sample Rating Trend



DIAGNOSIS

Recommendation

We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. We recommend you service and check the fuel filters for mucous-like deposits. Check with fuel supplier for biocides available to destroy the microorganisms in the fuel system. There is too much contamination present in this sample to perform a particle count.

Corrosion

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

Contaminants

Excessive free water present. High concentration of visible dirt/debris present in the fuel. There is a high amount of visible silt present in the sample. There is a light concentration of Bacteria, Yeast and Fungus present in the sample.

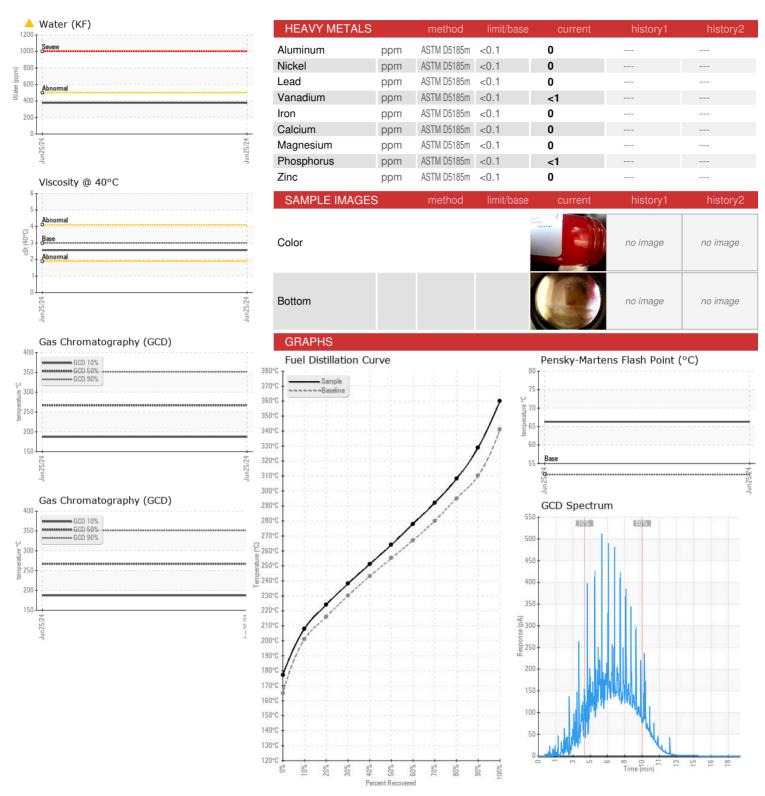
Fuel Condition

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

| Sample Date Client Info Q5 Jun 2024 |) (100 GAL) | | | | | | |
|---|----------------------------|----------|------------------|------------|----------------|----------|----------|
| Client Info | SAMPLE INFORM | MATION | method | limit/base | current | history1 | history2 |
| Marchine Age hrs | Sample Number | | Client Info | | WC0957744 | | |
| PHYSICAL PROPERTIES method limit/base current history1 history2 | Sample Date | | Client Info | | 25 Jun 2024 | | |
| ### PHYSICAL PROPERTIES method mil/base current history1 history2 | Machine Age | hrs | Client Info | | 0 | | |
| STAN Color | Sample Status | | | | SEVERE | | |
| STM Color Scalar "ASTM D1500 L4.5 Fisc @ 40°C CSt ASTM D445 3.0 2.57 EnskyMartens Flash Point °C PMCCGaulaid 52 66.3 SULFUR CONTENT method limit/base current history1 history2 Sulfur ppm ASTM D5185m 10 0 Sulfur UVF ppm ASTM D5185m 10 0 Sulfur (UVF) ppm ASTM D5453 13 Sulfur CVF ASTM D86 177 Sulfur CVF ASTM D86 165 177 Sulfur CVF ASTM D86 200 Sy Distillation Point °C ASTM D86 200 Sy Distillation Point °C ASTM D86 216 224 Sy Distillation Point °C ASTM D86 216 224 Sy Distill Point °C ASTM D86 243 251 Sy Distill Point °C ASTM D86 243 251 Sy Distill Point °C ASTM D86 255 264 Sy Distill Point °C ASTM D86 267 278 Sy Distill Point °C ASTM D86 280 292 Sy Distill Point °C ASTM D86 295 308 Sy Distill Point °C ASTM D86 318 Sy Distillation Point °C ASTM D86 345 Sy Distillation Point °C ASTM D86 345 Sy Distillation Point °C ASTM D86 341 360 Sy Distillation Point °C ASTM D86 345 Sy Distillation Point °C ASTM D86 341 360 Sy Distillation Point °C | PHYSICAL PROP | ERTIES | method | limit/base | current | history1 | history2 |
| Sec | Fuel Color | text | *Visual Screen | Yllow | Red | | |
| ### SULFUR CONTENT method limit/base current history1 history2 ### ASTM DS185m <1.0 <1 method limit/base current history1 history2 ### ASTM DS185m <1.0 <1.7 method limit/base current history1 history2 ### ASTM DS185m <1.0 <1.7 method limit/base current history1 | ASTM Color | scalar | *ASTM D1500 | | L4.5 | | |
| SULFUR CONTENT method limit/base current history1 history2 Sulfur ppm ASTM D5185m 10 0 | Visc @ 40°C | cSt | ASTM D445 | 3.0 | 2.57 | | |
| Sulfur ppm ASTM D5185m 10 0 | Pensky-Martens Flash Point | °C | *PMCC Calculated | 52 | 66.3 | | |
| DISTILLATION method limit/base current history1 history2 | SULFUR CONTE | NΤ | method | limit/base | current | history1 | history2 |
| DISTILLATION | Sulfur | ppm | ASTM D5185m | 10 | 0 | | |
| nitial Boiling Point | Sulfur (UVF) | ppm | ASTM D5453 | | 13 | | |
| % Distillation Point °C ASTM D86 200 0% Distill Point °C ASTM D86 201 208 5% Distillation Point °C ASTM D86 216 0% Distill Point °C ASTM D86 230 238 0% Distill Point °C ASTM D86 243 251 0% Distill Point °C ASTM D86 255 264 0% Distill Point °C ASTM D86 267 278 0% Distill Point °C ASTM D86 280 292 0% Distill Point °C ASTM D86 318 5% Distillation Point °C ASTM D86 318 0% Distill Point °C ASTM D86 345 5% Distillation Point °C ASTM D86 341 360 5% Distillation Point °C ASTM D8 | DISTILLATION | | method | limit/base | current | history1 | history2 |
| 0% Distill Point | nitial Boiling Point | °C | ASTM D86 | 165 | 177 | | |
| 5% Distillation Point | 5% Distillation Point | °C | ASTM D86 | | 200 | | |
| 0% Distill Point | 10% Distill Point | °C | ASTM D86 | 201 | 208 | | |
| .0% Distill Point | 15% Distillation Point | °C | ASTM D86 | | 216 | | |
| 0% Distill Point | 20% Distill Point | °C | ASTM D86 | 216 | 224 | | |
| 0% Distill Point | 30% Distill Point | °C | ASTM D86 | 230 | 238 | | |
| 0% Distill Point | 10% Distill Point | °C | ASTM D86 | 243 | 251 | | |
| 0% Distill Point | 50% Distill Point | °C | ASTM D86 | 255 | 264 | | |
| .0% Distill Point | 60% Distill Point | °C | ASTM D86 | 267 | 278 | | |
| 5% Distillation Point °C ASTM D86 310 329 5% Distillation Point °C ASTM D86 310 329 5% Distillation Point °C ASTM D86 341 360 6% Distillation Point | 70% Distill Point | °C | ASTM D86 | 280 | 292 | | |
| 0% Distill Point | 30% Distill Point | °C | ASTM D86 | 295 | 308 | | |
| Solution Solution | 35% Distillation Point | °C | ASTM D86 | | 318 | | |
| General Boiling Point °C ASTM D86 341 360 | 90% Distill Point | °C | ASTM D86 | 310 | 329 | | |
| IGNITION QUALITY | 95% Distillation Point | °C | | | 345 | | |
| ASTM D7777 37.7 36 Cetane Index ASTM D4737 <40.0 48 CONTAMINANTS method limit/base current history1 history2 cilicon ppm ASTM D5185m <1.0 <1 Codium ppm ASTM D5185m <0.1 1 Cotassium ppm ASTM D5185m <0.1 <1 | Final Boiling Point | °C | ASTM D86 | 341 | 360 | | |
| CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m <1.0 <1 Sodium ppm ASTM D5185m <0.1 1 Potassium ppm ASTM D5185m <0.1 <1 Vater % ASTM D6304 <0.05 ▲ 0.037 ppm Water ppm ASTM D6304 <500 ▲ 377 6 Gasoline % *In-House <0.50 0.0 6 Biodiesel % *In-House <20.0 1.7 MICROBIAL method limit/base current history1 history2 Bacteria CFU/ml WC-Method >=100000 ▲ 100 | IGNITION QUALIT | ГҮ | method | limit/base | current | history1 | history2 |
| CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m <1.0 | API Gravity | | ASTM D7777 | 37.7 | 36 | | |
| Silicon ppm ASTM D5185m <1.0 <1 Sodium ppm ASTM D5185m <0.1 1 Sodium ppm ASTM D5185m <0.1 1 Sodium ppm ASTM D5185m <0.1 <1 Sodium ppm ASTM D6185m <0.1 <1 Sodium ppm ASTM D6304 <0.05 ▲ 0.037 Sodium ppm ASTM D6304 <500 ▲ 377 Sodium ppm ASTM D6304 <500 ▲ 377 Sodium ppm ASTM D6304 <500 ▲ 100 | Cetane Index | | ASTM D4737 | <40.0 | 48 | | |
| Bodium ppm ASTM D5185m <0.1 1 Potassium ppm ASTM D5185m <0.1 | CONTAMINANTS | | method | limit/base | current | history1 | history2 |
| Potassium ppm ASTM D5185m <0.1 <1 Vater % ASTM D6304 <0.05 ▲ 0.037 ppm Water ppm ASTM D6304 <500 ▲ 377 6 Gasoline % *In-House <0.50 0.0 6 Biodiesel % *In-House <20.0 1.7 MICROBIAL method limit/base current history1 history2 Bacteria CFU/ml WC-Method >=100000 ▲ 100 | Silicon | ppm | ASTM D5185m | <1.0 | <1 | | |
| Water % ASTM D6304 <0.05 | Sodium | ppm | ASTM D5185m | <0.1 | 1 | | |
| pm Water ppm ASTM D6304 <500 ▲ 377 6 Gasoline % *In-House <0.50 | Potassium | ppm | ASTM D5185m | < 0.1 | <1 | | |
| 6 Gasoline | Nater | % | | < 0.05 | △ 0.037 | | |
| 6 Biodiesel % *In-House <20.0 1.7 MICROBIAL method limit/base current history1 history2 Bacteria CFU/ml WC-Method >=100000 ▲ 100 | opm Water | ppm | ASTM D6304 | < 500 | ▲ 377 | | |
| MICROBIAL method limit/base current history1 history2 Bacteria CFU/ml WC-Method >=100000 ▲ 100 | % Gasoline | % | *In-House | < 0.50 | 0.0 | | |
| Bacteria CFU/ml WC-Method >=100000 ▲ 100 | % Biodiesel | % | *In-House | <20.0 | 1.7 | | |
| | MICROBIAL | | method | limit/base | current | history1 | history2 |
| 'east | Bacteria | CFU/ml | WC-Method | >=100000 | <u> </u> | | |
| | Yeast | CFU/ml | WC-Method | >=100000 | 0 | | |
| Mold Colonies WC-Method MODER | Mold | Colonies | WC-Method | MODER | | | |



FUEL REPORT







Certificate 12367

Laboratory Sample No. Lab Number : 06220305

: WC0957744 Unique Number : 11098502

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested**

: 25 Jun 2024 : 02 Jul 2024 Diagnosed : 02 Jul 2024 - Doug Bogart

Test Package: DF-2 (Additional Tests: Bacteria, Fuel, Screen) To discuss this sample report, contact Customer Service at 1-800-237-1369.

 st - 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)

PETROLEUM RECOVERY SERVICES

210 POWELL DR SUMMERVILLE, SC US 29483

Contact: AJAY EL Ajay@prsfuel.com T: (843)225-1777

Report Id: PETSUM [WUSCAR] 06220305 (Generated: 07/03/2024 03:09:34) Rev: 1

Contact/Location: AJAY EL - PETSUM