

FUEL REPORT

Sample Rating Trend







Machine Id **ZDC AST 46 IN Diesel Fuel**

DIESEL FUEL No. 2 (--- GAL)

Recommendation

No corrective action is recommended at this time.

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) present in the sample. There is no indication of any contamination in the fuel. The amount and size of particulates present in the system are acceptable.

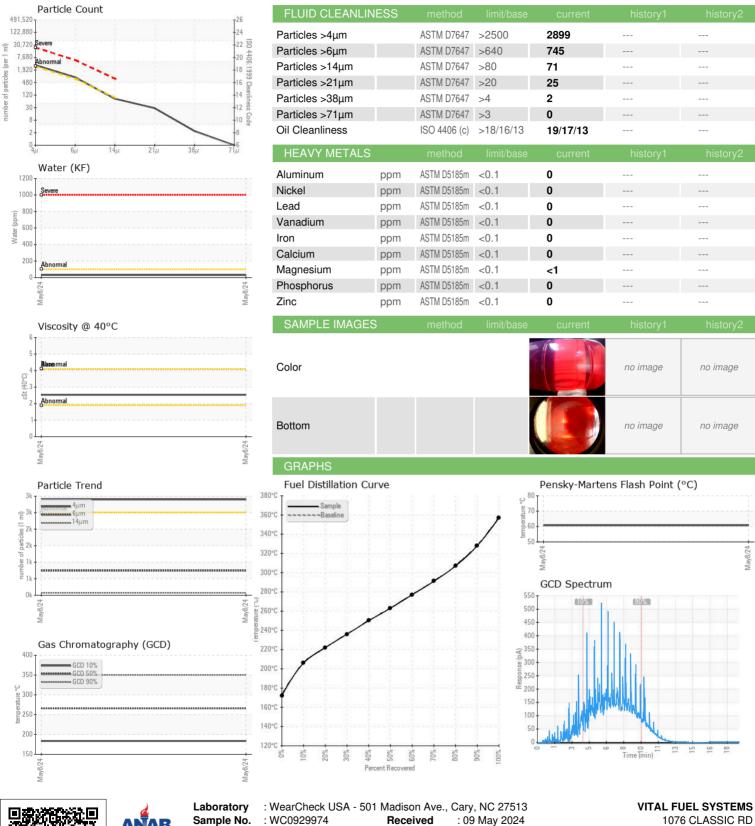
Fuel Condition

All laboratory tests indicate that this sample meets specifications for No.2 diesel fuel, low sulfur (US EPA/CGSB-3.517-3 type B). Sulfur value derived by ASTM D5453 method for ULSD validation. Sulfur level is acceptable for ULSD specification.

| | | | | May2024 | | |
|----------------------------|--------|------------------|------------|-------------|----------|----------|
| | | | | | | |
| SAMPLE INFORM | MATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | WC0929974 | | |
| Sample Date | | Client Info | | 08 May 2024 | | |
| Machine Age | hrs | Client Info | | 0 | | |
| Sample Status | | | | NORMAL | | |
| PHYSICAL PROP | ERTIES | method | limit/base | current | history1 | history2 |
| Fuel Color | text | *Visual Screen | | Red | | |
| ASTM Color | scalar | *ASTM D1500 | | L4.5 | | |
| Visc @ 40°C | cSt | ASTM D445 | 4.1 | 2.53 | | |
| Pensky-Martens Flash Point | °C | *PMCC Calculated | | 60.8 | | |
| SULFUR CONTE | NT | method | limit/base | current | history1 | history2 |
| Sulfur | ppm | ASTM D5185m | | 0 | | |
| Sulfur (UVF) | ppm | ASTM D5453 | | 11 | | |
| DISTILLATION | | method | limit/base | current | history1 | history2 |
| Initial Boiling Point | °C | ASTM D86 | | 172 | | |
| 5% Distillation Point | °C | ASTM D86 | | 195 | | |
| 10% Distill Point | °C | ASTM D86 | | 206 | | |
| 15% Distillation Point | °C | ASTM D86 | | 214 | | |
| 20% Distill Point | °C | ASTM D86 | | 222 | | |
| 30% Distill Point | °C | ASTM D86 | | 236 | | |
| 40% Distill Point | °C | ASTM D86 | | 250 | | |
| 50% Distill Point | °C | ASTM D86 | | 263 | | |
| 60% Distill Point | °C | ASTM D86 | | 277 | | |
| 70% Distill Point | °C | ASTM D86 | | 291 | | |
| 80% Distill Point | °C | ASTM D86 | | 307 | | |
| 85% Distillation Point | °C | ASTM D86 | | 317 | | |
| 90% Distill Point | °C | ASTM D86 | | 328 | | |
| 95% Distillation Point | °C | ASTM D86 | | 343 | | |
| Final Boiling Point | °C | ASTM D86 | | 357 | | |
| IGNITION QUALIT | ΓΥ | method | limit/base | current | history1 | history2 |
| API Gravity | | ASTM D7777 | | 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 | 0.003 | | |
| ppm Water | ppm | ASTM D6304 | <500 | 30 | | |
| % Gasoline | % | *In-House | < 0.50 | 2.2 | | |
| % Biodiesel | % | *In-House | <20.0 | 1.4 | | |



FUEL REPORT





Certificate 12367

Sample No.

: WC0929974

Lab Number : 06174991 Unique Number : 11021044

Diagnosed Test Package : DF-2 (Additional Tests: Fuel, Screen)

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)

Tested

: 17 May 2024

: 17 May 2024 - Angela Borella

1076 CLASSIC RD APEX, NC US 27539

Contact: SERVICE

service@vitalfuelsystems.com T: (919)629-8180

F: (919)303-7399

Contact/Location: SERVICE ? - VITAPE