

Area **Procacci Development-Miami [4943]** [Procacci Development-Miami] F-2B

Diesel Fuel

Fluid No.2 DIESEL FUEL (ULTRALOW SULPHUR) (350 GAL)

DIAGNOSIS

A 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. All other laboratory tests indicate that this sample meets specifications for No.2 ultra-lowsulfur diesel fuel.

Corrosion

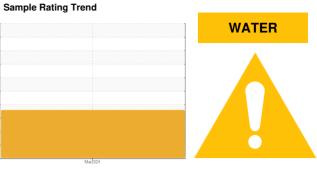
All metal levels are normal indicating no corrosion in the system.

Contaminants

There is a high amount of particulates present in the fuel. Free water present. There is no bacteria or fungus (yeast and/or mold) present in the sample.

Fuel Condition

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

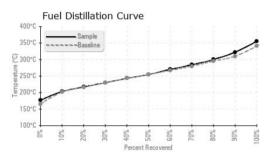


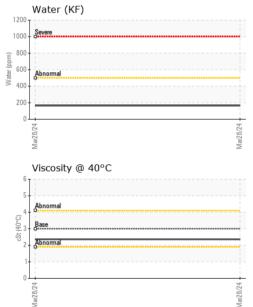
| SAMPLE INFORM | IATION | method | limit/base | current | history1 | history2 |
|----------------------------|--------|------------------|------------|-------------|----------|----------|
| Sample Number | | Client Info | | WC06139459 | | |
| Sample Date | | Client Info | | 28 Mar 2024 | | |
| Machine 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 | | |
| Visc @ 40°C | cSt | ASTM D445 | 3.0 | 2.36 | | |
| Pensky-Martens Flash Point | °C | *PMCC Calculated | 52 | 65.1 | | |
| SULFUR CONTEI | NT | 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 | 176 | | |
| 5% Distillation Point | °C | ASTM D86 | | 195 | | |
| 10% Distill Point | °C | ASTM D86 | 201 | 203 | | |
| 15% Distillation Point | °C | ASTM D86 | | 210 | | |
| 20% Distill Point | °C | ASTM D86 | 216 | 217 | | |
| 30% Distill Point | °C | ASTM D86 | 230 | 230 | | |
| 40% Distill Point | °C | ASTM D86 | 243 | 243 | | |
| 50% Distill Point | °C | ASTM D86 | 255 | 255 | | |
| 60% Distill Point | °C | ASTM D86 | 267 | 270 | | |
| 70% Distill Point | °C | ASTM D86 | 280 | 284 | | |
| 80% Distill Point | °C | ASTM D86 | 295 | 300 | | |
| 85% Distillation Point | °C | ASTM D86 | | 311 | | |
| 90% Distill Point | °C | ASTM D86 | 310 | 322 | | |
| 95% Distillation Point | °C | ASTM D86 | | 339 | | |
| Final Boiling Point | °C | ASTM D86 | 341 | 355 | | |
| IGNITION QUALIT | ΓY | method | limit/base | current | history1 | history2 |
| API Gravity | | ASTM D7777 | 37.7 | 38 | | |
| Cetane Index | | ASTM D4737 | <40.0 | 50 | | |
| 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 | 0.016 | | |
| ppm Water | ppm | ASTM D6304 | <500 | 165 | | |
| % Gasoline | % | *In-House | <0.50 | 0.0 | | |
| % Biodiesel | % | *In-House | <20.0 | 0.0 | | |



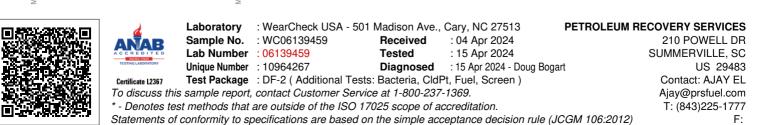
FUEL REPORT

| Par 491,520 τ | ticle Count | | | τ26 |
|--|--------------------|-----|-----|--|
| 122,880 | | | | -24 |
| 30,720 Severe | | | | -22 |
| 30,720 Severe 7,680 Abnor 1,920 - 480 - 120 - 30 - 8 | | | | 20 |
| 1,920 | | | | -18 |
| 480 - | | | | -16 |
| 120- | | | | -14 |
| 30- | | 1 | | +20 +18 +16 +14 +12 +10 |
| 8- | | | \ | |
| 2 - | | | | -8 |
| 0. 4µ | 6µ 14µ | 21µ | 38µ | 71µ |
| 12k (Tu lok | 4μm 6μm 14μm | | | |
| Abne | <u>prmal</u> | | | |
| 2k | ormal | | | |
| 0k | ormal | | | 4 |
| 2.0 | ormal | | | 4C/8C/8M |









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Contact/Location: AJAY EL - PETSUM

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