

Area HILTON HEAD PSD [4984] [HILTON HEAD PSD] MAIN

Diesel Fuel

Fluid No.2 DIESEL FUEL (ULTRALOW SULPHUR) (10000 GAL)

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.

Corrosion

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

Contaminants

There is a moderate amount of particulates present in the fuel. Free water present. Light concentration of visible dirt/debris present in the fuel. There is no bacteria or fungus (yeast and/or mold) present in the sample.

Fuel Condition

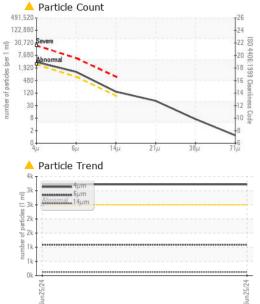
Sulfur value derived by ASTM D5453 method for ULSD validation. Sulfur level is acceptable for ULSD specification.

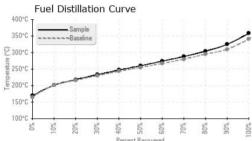


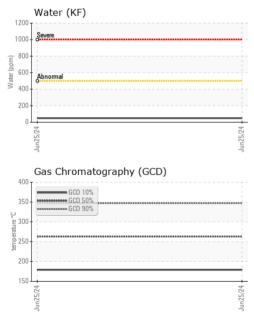
| SAMPLE INFORM | IATION | method | limit/base | current | history1 | history2 |
|----------------------------|--------|------------------|------------|-------------|----------|----------|
| Sample Number | | Client Info | | WC0957808 | | |
| Sample Date | | Client Info | | 25 Jun 2024 | | |
| Machine 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 | 59.3 | | |
| SULFUR CONTENT | | method | limit/base | current | history1 | history2 |
| Sulfur | ppm | ASTM D5185m | 10 | 0 | | |
| Sulfur (UVF) | ppm | ASTM D5453 | | 10 | | |
| DISTILLATION | | method | limit/base | current | biotoput | history |
| | | | | | history1 | history2 |
| Initial Boiling Point | °C | ASTM D86 | 165 | 169 | | |
| 5% Distillation Point | °C | ASTM D86 | 001 | 191 | | |
| 10% Distill Point | °C | ASTM D86 | 201 | 201 | | |
| 15% Distillation Point | °C | ASTM D86 | 010 | 210 | | |
| 20% Distill Point | °C | ASTM D86 | 216 | 218 | | |
| 30% Distill Point | °C | ASTM D86 | 230 | 233 | | |
| 40% Distill Point | °C | ASTM D86 | 243 | 247 | | |
| 50% Distill Point | °C | ASTM D86 | 255 | 260 | | |
| 60% Distill Point | °C | ASTM D86 | 267 | 274 | | |
| 70% Distill Point | °C | ASTM D86 | 280 | 288 | | |
| 80% Distill Point | °C | ASTM D86 | 295 | 304 | | |
| 85% Distillation Point | | ASTM D86 | | 315 | | |
| 90% Distill Point | °C | ASTM D86 | 310 | 325 | | |
| 95% Distillation Point | | ASTM D86 | | 343 | | |
| Final Boiling Point | °C | ASTM D86 | 341 | 358 | | |
| IGNITION QUALI | ΓY | method | limit/base | current | history1 | history2 |
| API Gravity | | ASTM D7777 | 37.7 | 37 | | |
| 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 | 49 | | |
| % Gasoline | % | *In-House | <0.50 | 0.0 | | |
| % Biodiesel | % | *In-House | <20.0 | 0.0 | | |



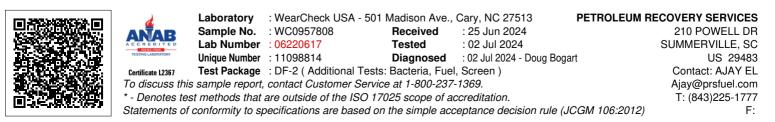
FUEL REPORT







| FLUID CLEANLIN | ESS | method | limit/base | | current | history1 | history2 |
|-----------------|----------|--------------|------------|---|----------|----------|----------|
| Particles >4µm | | ASTM D7647 | >2500 | | 3218 | | |
| Particles >6µm | | ASTM D7647 | >640 | | 1090 | | |
| Particles >14µm | | ASTM D7647 | >80 | | 123 | | |
| Particles >21µm | | ASTM D7647 | >20 | | 45 | | |
| Particles >38µm | | ASTM D7647 | >4 | | 6 | | |
| Particles >71µm | | ASTM D7647 | >3 | | 1 | | |
| Oil Cleanliness | | ISO 4406 (c) | >18/16/13 | | 19/17/14 | | |
| MICROBIAL | | method | limit/base | | current | history1 | history2 |
| Bacteria | CFU/ml | WC-Method | >=100000 | | 0 | | |
| Yeast | CFU/ml | WC-Method | >=100000 | | 0 | | |
| Mold | Colonies | WC-Method | MODER | | | | |
| 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 | | 0 | | |
| Phosphorus | ppm | ASTM D5185m | <0.1 | | <1 | | |
| Zinc | ppm | ASTM D5185m | <0.1 | | 0 | | |
| SAMPLE IMAGES | 6 | method | limit/base | | current | history1 | history2 |
| Color | | | | | | no image | no image |
| | | | | / | 1 ACCOR | | |



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