

FUEL REPORT



Machine Id

FIRE PUMP

Component Diesel Fuel Fluid DIESEL FUEL No. 2 (--- GAL)

DIAGNOSIS

A Recommendation

Elevated lubricant additive metals suggest this fuel may have come in contact with a lubricant. Sulfur is above typical for ULSD. Verify fuel type requirements prior to use.

Corrosion

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

Contaminants

The water content is negligible. There is no bacteria or fungus (yeast and/or mold) present in the sample.

Fuel Condition

Sulfur value derived by ASTM D5453 method. Sulfur level is acceptable for low sulfur specification.

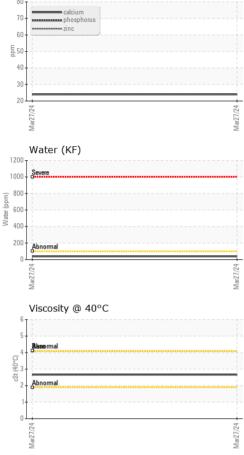
| SAMPLE INFORM | IATION | method | limit/base | current | history1 | history2 |
|---------------|--------------------|-------------|------------|-------------|----------|----------|
| Sample Number | | Client Info | | WC0812863 | | |
| Sample Date | | Client Info | | 27 Mar 2024 | | |
| Machine Age | hrs | Client Info | | 0 | | |
| Sample Status | | | | ABNORMAL | | |
| PHYSICAL PROP | HYSICAL PROPERTIES | | limit/base | current | history1 | history2 |
| ASTM Color | scalar | *ASTM D1500 | | L4.5 | | |
| Visc @ 40°C | cSt | ASTM D445 | 4.1 | 2.66 | | |
| SULFUR CONTER | NT | method | limit/base | current | history1 | history2 |
| Sulfur | ppm | ASTM D5185m | | — 74 | | |
| Sulfur (UVF) | ppm | ASTM D5453 | | 54 | | |
| 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 | | |
| Water | % | ASTM D6304 | <0.05 | 0.003 | | |
| ppm Water | ppm | ASTM D6304 | <500 | 38 | | |
| % Gasoline | % | *In-House | <0.50 | 0.0 | | |
| % Biodiesel | % | *In-House | <20.0 | 0.0 | | |
| HEAVY METALS | | method | limit/base | current | history1 | history2 |
| Aluminum | ppm | ASTM D5185m | <0.1 | 0 | | |
| Nickel | ppm | ASTM D5185m | <0.1 | <1 | | |
| Lead | ppm | ASTM D5185m | <0.1 | 0 | | |
| Vanadium | ppm | ASTM D5185m | <0.1 | <1 | | |
| Iron | ppm | ASTM D5185m | <0.1 | 0 | | |
| Calcium | ppm | ASTM D5185m | <0.1 | <u> </u> | | |
| Magnesium | ppm | ASTM D5185m | <0.1 | <u> </u> | | |
| Phosphorus | ppm | ASTM D5185m | <0.1 | <u> </u> | | |
| Zinc | ppm | ASTM D5185m | <0.1 | <u> </u> | | |
| SAMPLE IMAGES | 6 | method | limit/base | current | history1 | history2 |
| Color | | | | | no image | no image |
| Bottom | | | | | no image | no image |



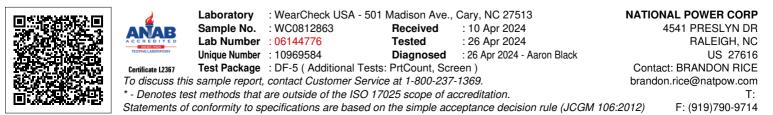
FUEL REPORT

GRAPHS

Additives 80 70



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|----------------|---------------------------------|--|--|--|--|--|--|----|--|--|---|--|----|---|---|-------|------|-------|
| | Pensky-Martens Flash Point (°C) | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | 8 | | | | | | | | | | | | | | | | | |
| | 6 - | | | | | | | | | | | | | | | | | |
| | 4 | | | | | | | | | | | | | | | | | |
| ç | 2 - | | | | | | | | | | | | | | | | | |
| temperature °C | 0 | | | | | | | | | | | | | | | | | |
| tem | -2 - | | | | | | | | | | | | | | | | | |
| | -4 - | | | | | | | | | | | | | | | | | |
| | -6 - | | | | | | | | | | | | | | | | | |
| | -8- | | | | | | | | | | | | | | | | | |
| | -10 | | | | | | | | | | | | | | _ | _ | | 4 |
| | 7/24 | | | | | | | | | | | | | | | | | 7//24 |
| | /lar2 | | | | | | | | | | | | | | | | | /lar2 |



Contact/Location: BRANDON RICE - NATRAL Page 2 of 2