

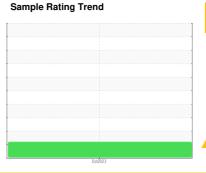
FUEL REPORT

[132359] Washine Id WINDSOR HANSPORT WATER

Component

Diesel Fuel

No.2 DIESEL FUEL (LOW-SULPHUR) (--- GAL)





DIAGNOSIS

Recommendation

Laboratory test indicate that this fuel is suitable for use and meets all test requirements. We advise that you filter this fluid before use. We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

Corrosion

{not applicable}

Contaminants

There is a moderate amount of silt (particulates < 14 microns in size) present in the fuel. The water content is negligible.

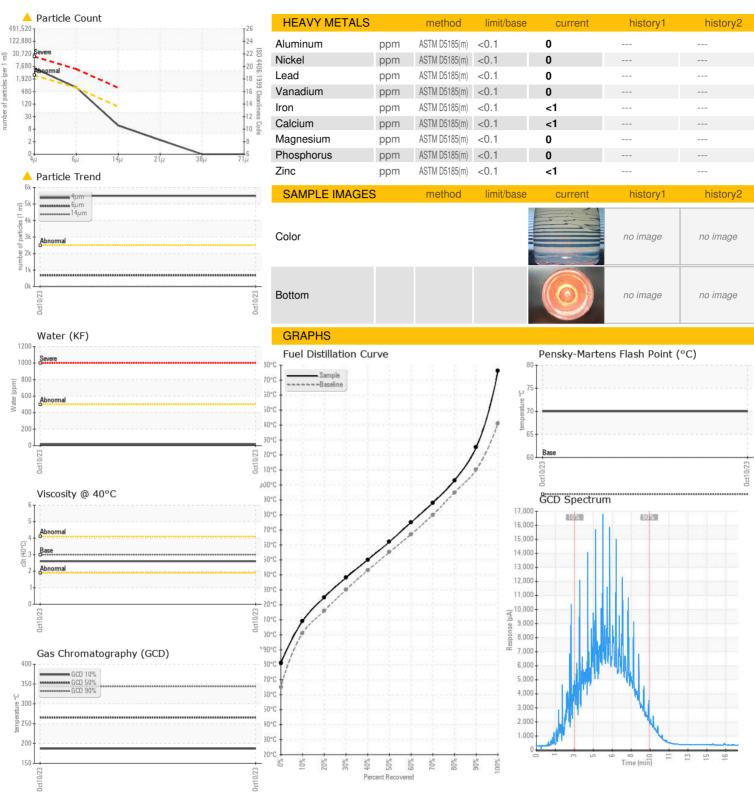
Fuel Condition

All laboratory tests indicate that this sample meets specifications for No.2 diesel fuel, low sulfur (US EPA/CGSB-3.517-3 type B). The fuel is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

| AL) | | | | Oct2023 | | |
|----------------------------|--------|----------------|---------------|-------------------|--------------|-----------------|
| SAMPLE INFORM | MATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | CU0021791 | | |
| Sample Date | | Client Info | | 10 Oct 2023 | | |
| Machine Age | hrs | Client Info | | 0 | | |
| Sample Status | | | | ABNORMAL | | |
| PHYSICAL PROP | EDTIEC | un a tha a al | line!#/lenene | | la la tament | la i a ta m v O |
| PHYSICAL PROP | ERITES | method | limit/base | current | history1 | history2 |
| Specific Gravity | | ASTM D1298* | 0.839 | 0.841 | | |
| Fuel Color | text | Visual Screen* | Yllow | Orang | | |
| Visc @ 40°C | cSt | ASTM D7279(m) | 3.0 | 2.6 | | |
| Pensky-Martens Flash Point | °C | ASTM D7215* | 52 | 70 | | |
| SULFUR CONTE | NT | method | limit/base | current | history1 | history2 |
| Sulfur | ppm | ASTM D5185(m) | 250 | 30 | | |
| DISTILLATION | | method | limit/base | current | history1 | history2 |
| Initial Boiling Point | °C | ASTM D2887* | 165 | 181 | | |
| 5% Distillation Point | °C | ASTM D2887* | | 200 | | |
| 10% Distill Point | °C | ASTM D2887* | 201 | 209 | | |
| 15% Distillation Point | °C | ASTM D2887* | | 217 | | |
| 20% Distill Point | °C | ASTM D2887* | 216 | 225 | | |
| 30% Distill Point | °C | ASTM D2887* | 230 | 238 | | |
| 40% Distill Point | °C | ASTM D2887* | 243 | 250 | | |
| 50% Distill Point | °C | ASTM D2887* | 255 | 262 | | |
| 60% Distill Point | °C | ASTM D2887* | 267 | 275 | | |
| 70% Distill Point | °C | ASTM D2887* | 280 | 288 | | |
| 80% Distill Point | °C | ASTM D2887* | 295 | 303 | | |
| 85% Distillation Point | °C | ASTM D2887* | | 314 | | |
| 90% Distill Point | °C | ASTM D2887* | 310 | 325 | | |
| 95% Distillation Point | °C | ASTM D2887* | | 345 | | |
| Final Boiling Point | °C | ASTM D2887* | 341 | 376 | | |
| IGNITION QUALIT | ΓΥ | method | limit/base | current | history1 | history2 |
| API Gravity | | ASTM D1298* | 37.7 | 36 | | |
| Cetane Index | | ASTM D4737* | <40.0 | 49 | | |
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185(m) | <1.0 | 0 | | |
| Sodium | ppm | ASTM D5185(m) | <0.1 | 0 | | |
| Potassium | ppm | ASTM D5185(m) | <0.1 | <1 | | |
| Water | % | ASTM D6304* | < 0.05 | 0.002 | | |
| ppm Water | ppm | ASTM D6304* | <500 | 15.2 | | |
| FLUID CLEANLIN | ESS | method | limit/base | current | history1 | history2 |
| Particles >4µm | | ASTM D7647 | >2500 | △ 5490 | | |
| Particles >6µm | | ASTM D7647 | >640 | △ 673 | | |
| Particles >14µm | | ASTM D7647 | >80 | 10 | | |
| Particles >21µm | | ASTM D7647 | >20 | 2 | | |
| Particles >38µm | | ASTM D7647 | >4 | 0 | | |
| Particles >71µm | | ASTM D7647 | >3 | 0 | | |
| Oil Cleanliness | | ISO 4406 (c) | >18/16/13 | <u>^</u> 20/17/10 | | |



FUEL REPORT





CALA ISO 17025:2017 Accredited

Laboratory

Laboratory Sample No. Lab Number **Unique Number**

: CU0021791

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : 02588440

: 11 Oct 2023 Diagnosed : 16 Oct 2023 Diagnostician : Kevin Marson

Test Package : FUEL (Additional Tests: CC Flash, GC-PercFuel, PrtCount)

To discuss this sample report, contact Customer Service at 1-800-268-2131.

: 5657506

Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

CUMMINS DIESEL 50 SIMMONDS DRIVE DARTMOUTH, NS **CA B3B 1R3**

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