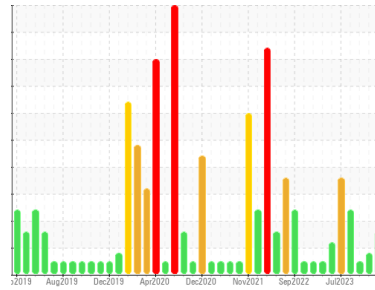




FUEL REPORT

Sample Rating Trend



WATER



Machine Id
TDT837241 DIESEL DAY TANK SPG4160A
 Component
Diesel Fuel
 Fluid
No.2 DIESEL FUEL (ULTRALOW SULPHUR) (--- GAL)

DIAGNOSIS

▲ Recommendation

We advise that you check for the source of water entry. We advise that you filter this fluid before use. We advise that you follow the water drain-off procedure for this component. We recommend an early resample to monitor this condition.

▲ Contaminants

Free water present. There is no bacteria or fungus (yeast and/or mold) present in the sample. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Fuel Condition

All laboratory tests indicate that this sample meets specifications for No.2 ultra-low-sulfur diesel fuel (US EPA/CGSB-3.517-3 type B).

| SAMPLE INFORMATION | method | limit/base | current | history1 | history2 |
|--------------------|-------------|-------------|--------------------|-------------|-------------|
| Sample Number | Client Info | | PP13964294 | PP13941989 | PP13920747 |
| Sample Date | Client Info | | 15 Mar 2024 | 07 Jan 2024 | 07 Nov 2023 |
| Machine Age | hrs | Client Info | 0 | 0 | 0 |
| Sample Status | | | ABNORMAL | ATTENTION | NORMAL |

| PHYSICAL PROPERTIES | method | limit/base | current | history1 | history2 |
|----------------------------|-------------|----------------|---------------|----------|----------|
| Specific Gravity | ASTM D1298* | 0.839 | 0.843 | 0.841 | 0.841 |
| Fuel Color | text | Visual Screen* | Yellow | Yellow | Yellow |
| Visc @ 40°C | cSt | ASTM D7279(m) | 2.7 | 2.9 | 2.7 |
| Pensky-Martens Flash Point | °C | ASTM D7215* | 62.9 | 63.3 | 64.4 |

| SULFUR CONTENT | method | limit/base | current | history1 | history2 |
|----------------|--------|---------------|----------|----------|----------|
| Sulfur | ppm | ASTM D5185(m) | 8 | 8 | 8 |

| DISTILLATION | method | limit/base | current | history1 | history2 | |
|------------------------|--------|-------------|---------|------------|----------|-----|
| Initial Boiling Point | °C | ASTM D2887* | 165 | 174 | 174 | 175 |
| 5% Distillation Point | °C | ASTM D2887* | | 198 | 197 | 197 |
| 10% Distill Point | °C | ASTM D2887* | 201 | 209 | 209 | 208 |
| 15% Distillation Point | °C | ASTM D2887* | | 218 | 217 | 216 |
| 20% Distill Point | °C | ASTM D2887* | 216 | 226 | 226 | 225 |
| 30% Distill Point | °C | ASTM D2887* | 230 | 241 | 241 | 240 |
| 40% Distill Point | °C | ASTM D2887* | 243 | 254 | 254 | 253 |
| 50% Distill Point | °C | ASTM D2887* | 255 | 267 | 267 | 266 |
| 60% Distill Point | °C | ASTM D2887* | 267 | 280 | 280 | 280 |
| 70% Distill Point | °C | ASTM D2887* | 280 | 294 | 294 | 294 |
| 80% Distill Point | °C | ASTM D2887* | 295 | 309 | 310 | 310 |
| 85% Distillation Point | °C | ASTM D2887* | | 320 | 321 | 322 |
| 90% Distill Point | °C | ASTM D2887* | 310 | 331 | 332 | 333 |
| 95% Distillation Point | °C | ASTM D2887* | | 350 | 350 | 353 |
| Final Boiling Point | °C | ASTM D2887* | 341 | 377 | 377 | 384 |

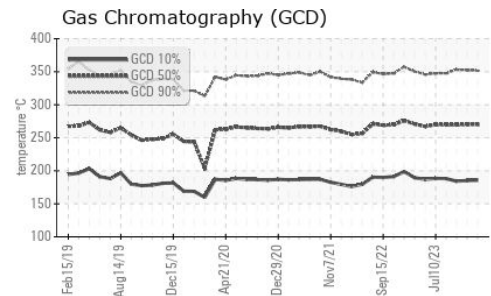
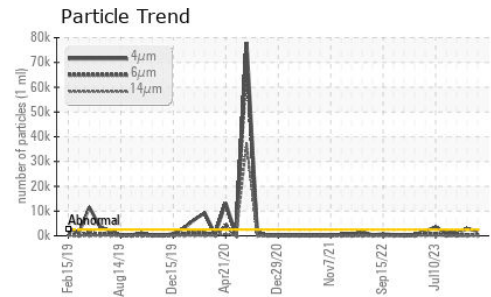
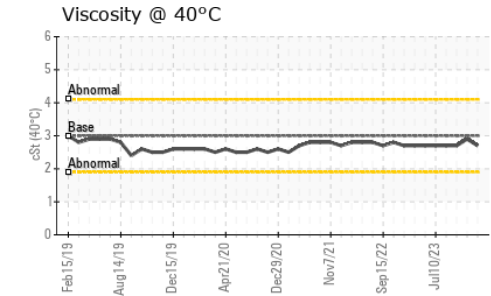
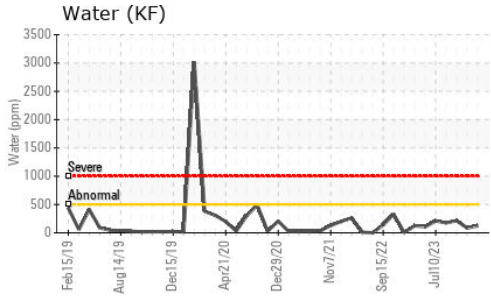
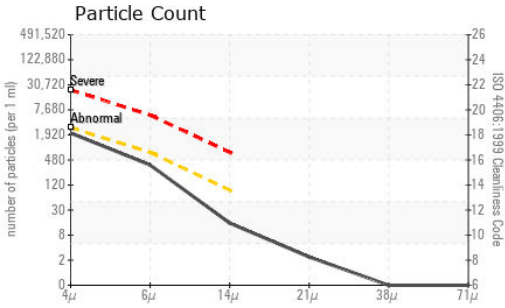
| IGNITION QUALITY | method | limit/base | current | history1 | history2 |
|------------------|-------------|------------|-----------|----------|----------|
| API Gravity | ASTM D1298* | 37.7 | 36 | 36 | 36 |
| Cetane Index | ASTM D4737* | <40.0 | 49 | 49 | 49 |

| CONTAMINANTS | method | limit/base | current | history1 | history2 | |
|--------------|--------|---------------|---------|--------------|----------|-------|
| Silicon | ppm | ASTM D5185(m) | <1.0 | 0 | 0 | 0 |
| Sodium | ppm | ASTM D5185(m) | <0.1 | <1 | <1 | 0 |
| Potassium | ppm | ASTM D5185(m) | <0.1 | 0 | 0 | <1 |
| Water | % | ASTM D6304* | <0.05 | 0.012 | 0.008 | 0.021 |
| ppm Water | ppm | ASTM D6304* | <500 | 124 | 85 | 215 |

| FLUID CLEANLINESS | method | limit/base | current | history1 | history2 |
|-------------------|--------------|------------|-----------------|------------|----------|
| Particles >4µm | ASTM D7647 | >2500 | 1861 | ● 2898 | 964 |
| Particles >6µm | ASTM D7647 | >640 | 319 | 376 | 220 |
| Particles >14µm | ASTM D7647 | >80 | 13 | 8 | 18 |
| Particles >21µm | ASTM D7647 | >20 | 2 | 2 | 7 |
| Particles >38µm | ASTM D7647 | >4 | 0 | 0 | 2 |
| Particles >71µm | ASTM D7647 | >3 | 0 | 0 | 0 |
| Oil Cleanliness | ISO 4406 (c) | >18/16/13 | 18/15/11 | ● 19/16/10 | 17/15/11 |



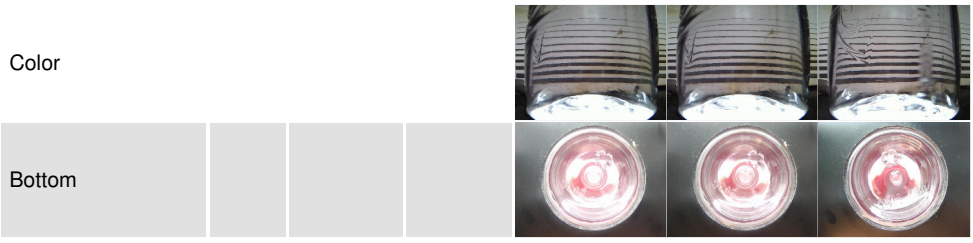
FUEL REPORT



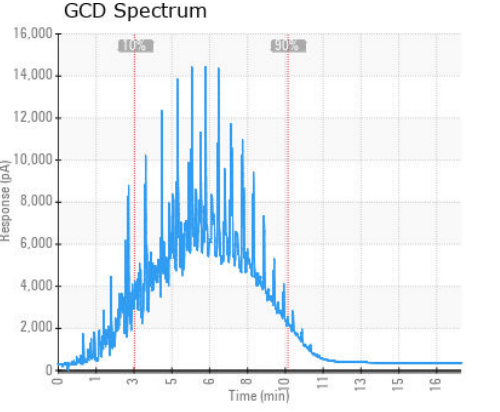
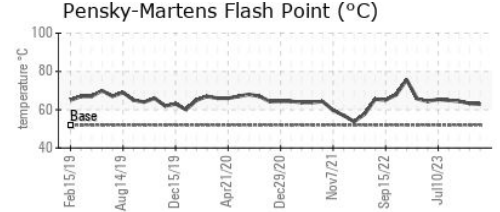
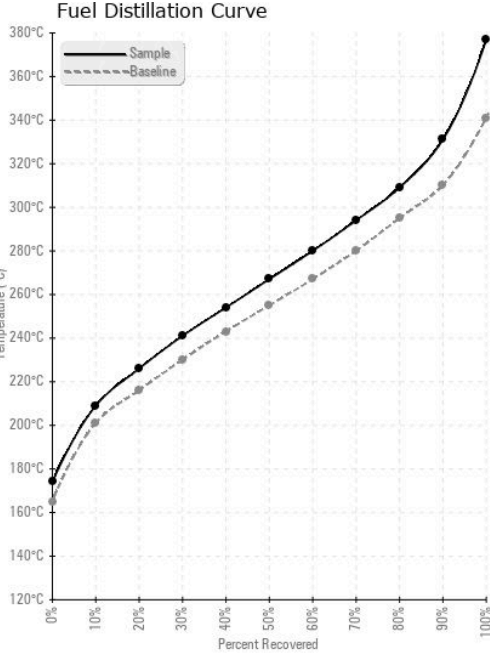
| MICROBIAL | method | limit/base | current | history1 | history2 |
|-----------|----------------------|------------|---------|----------|----------|
| Bacteria | CFU/ml ASTM D6469* | >=100000 | 0 | 0 | 0 |
| Yeast | CFU/ml ASTM D6469* | >=100000 | 0 | 0 | 0 |
| Mold | Colonies ASTM D6469* | MODER | NONE | NONE | NONE |

| HEAVY METALS | method | limit/base | current | history1 | history2 |
|--------------|-------------------|------------|---------|----------|----------|
| Aluminum | ppm ASTM D5185(m) | <0.1 | 0 | 0 | 0 |
| Nickel | ppm ASTM D5185(m) | <0.1 | 0 | 0 | 0 |
| Lead | ppm ASTM D5185(m) | <0.1 | 0 | 0 | 0 |
| Vanadium | ppm ASTM D5185(m) | <0.1 | 0 | 0 | 0 |
| Iron | ppm ASTM D5185(m) | <0.1 | 0 | 0 | <1 |
| Calcium | ppm ASTM D5185(m) | <0.1 | 0 | 0 | 0 |
| Magnesium | ppm ASTM D5185(m) | <0.1 | 0 | 0 | 0 |
| Phosphorus | ppm ASTM D5185(m) | <0.1 | <1 | <1 | <1 |
| Zinc | ppm ASTM D5185(m) | <0.1 | 0 | 0 | 0 |

SAMPLE IMAGES



GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PP13964294
Lab Number : 02625839
Unique Number : 5758971
Test Package : FUEL (Additional Tests: Bacteria, CC Flash, PrtCount)

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 F:

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