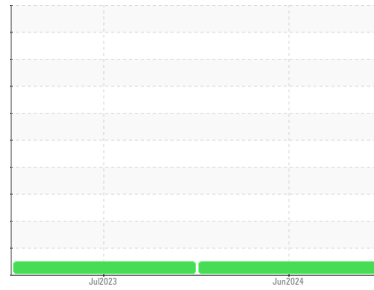


# FUEL REPORT

### Sample Rating Trend



**NORMAL**



Area  
[6100298979]  
Machine Id  
**36524-1-1-1-0913**  
Component  
**Diesel Fuel**  
Fluid  
**No.2 DIESEL FUEL (ULTRALOW SULPHUR) (--- GAL)**

### DIAGNOSIS

#### Recommendation

Laboratory test indicate that this fuel is suitable for use and meets all test requirements. Resample at the next service interval to monitor.

#### Contaminants

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. There is no indication of any contamination in the diesel fuel.

#### 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 |             |            | <b>WA0021957</b>   | WA0020248   | ---      |
| Sample Date        | Client Info |             |            | <b>17 Jun 2024</b> | 04 Jul 2023 | ---      |
| Machine Age        | hrs         | Client Info |            | <b>0</b>           | 0           | ---      |
| Sample Status      |             |             |            | <b>NORMAL</b>      | NORMAL      | ---      |

| PHYSICAL PROPERTIES        |      | method         | limit/base | current      | history1 | history2 |
|----------------------------|------|----------------|------------|--------------|----------|----------|
| Specific Gravity           |      | ASTM D1298*    | 0.839      | <b>0.835</b> | 0.838    | ---      |
| Fuel Color                 | text | Visual Screen* | Yllow      | <b>Yllow</b> | Yllow    | ---      |
| Visc @ 40°C                | cSt  | ASTM D7279(m)  | 3.0        | <b>2.5</b>   | 2.5      | ---      |
| Pensky-Martens Flash Point | °C   | ASTM D7215*    | 52         | <b>60.7</b>  | 60.4     | ---      |

| SULFUR CONTENT |     | method        | limit/base | current   | history1 | history2 |
|----------------|-----|---------------|------------|-----------|----------|----------|
| Sulfur         | ppm | ASTM D5185(m) | 10         | <b>11</b> | 11       | ---      |

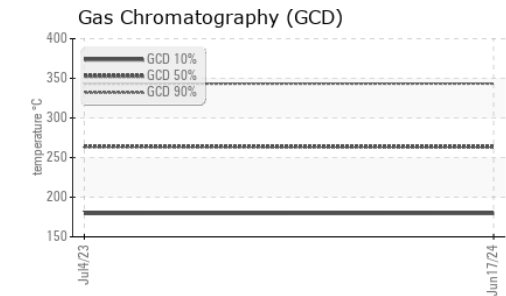
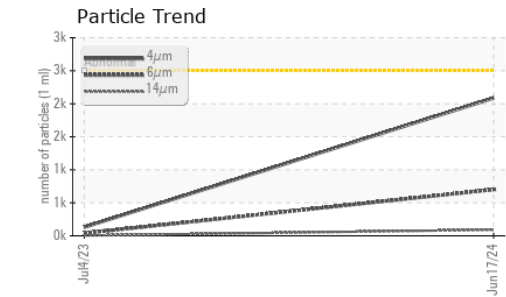
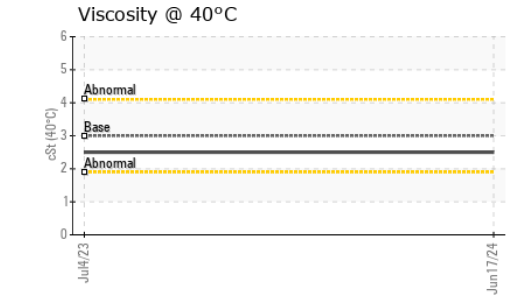
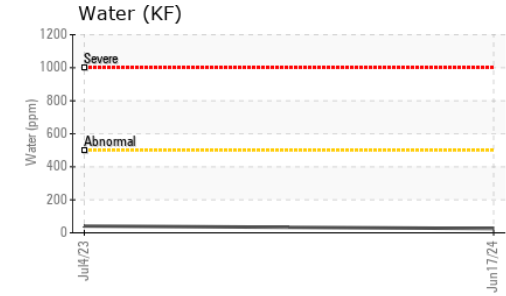
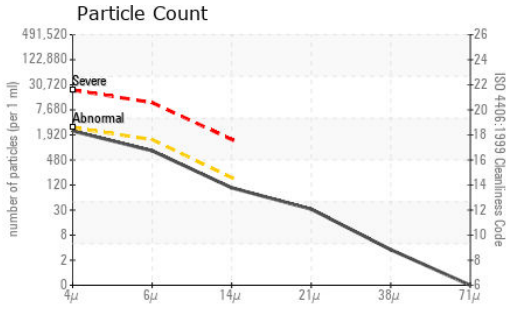
| DISTILLATION           |    | method      | limit/base | current    | history1 | history2 |
|------------------------|----|-------------|------------|------------|----------|----------|
| Initial Boiling Point  | °C | ASTM D2887* | 165        | <b>172</b> | 171      | ---      |
| 5% Distillation Point  | °C | ASTM D2887* |            | <b>192</b> | 192      | ---      |
| 10% Distill Point      | °C | ASTM D2887* | 201        | <b>203</b> | 203      | ---      |
| 15% Distillation Point | °C | ASTM D2887* |            | <b>211</b> | 212      | ---      |
| 20% Distill Point      | °C | ASTM D2887* | 216        | <b>220</b> | 220      | ---      |
| 30% Distill Point      | °C | ASTM D2887* | 230        | <b>235</b> | 235      | ---      |
| 40% Distill Point      | °C | ASTM D2887* | 243        | <b>248</b> | 248      | ---      |
| 50% Distill Point      | °C | ASTM D2887* | 255        | <b>261</b> | 261      | ---      |
| 60% Distill Point      | °C | ASTM D2887* | 267        | <b>274</b> | 274      | ---      |
| 70% Distill Point      | °C | ASTM D2887* | 280        | <b>287</b> | 287      | ---      |
| 80% Distill Point      | °C | ASTM D2887* | 295        | <b>302</b> | 302      | ---      |
| 85% Distillation Point | °C | ASTM D2887* |            | <b>313</b> | 313      | ---      |
| 90% Distill Point      | °C | ASTM D2887* | 310        | <b>324</b> | 324      | ---      |
| 95% Distillation Point | °C | ASTM D2887* |            | <b>343</b> | 343      | ---      |
| Final Boiling Point    | °C | ASTM D2887* | 341        | <b>363</b> | 362      | ---      |

| IGNITION QUALITY |  | method      | limit/base | current   | history1 | history2 |
|------------------|--|-------------|------------|-----------|----------|----------|
| API Gravity      |  | ASTM D1298* | 37.7       | <b>37</b> | 37       | ---      |
| Cetane Index     |  | ASTM D4737* | <40.0      | <b>50</b> | 49       | ---      |

| CONTAMINANTS |     | method        | limit/base | current      | history1 | history2 |
|--------------|-----|---------------|------------|--------------|----------|----------|
| Silicon      | ppm | ASTM D5185(m) | <1.0       | <b>0</b>     | 0        | ---      |
| Sodium       | ppm | ASTM D5185(m) | <0.1       | <b>0</b>     | <1       | ---      |
| Potassium    | ppm | ASTM D5185(m) | <0.1       | <b>0</b>     | <1       | ---      |
| Water        | %   | ASTM D6304*   | <0.05      | <b>0.003</b> | 0.004    | ---      |
| ppm Water    | ppm | ASTM D6304*   | <500       | <b>26</b>    | 41.3     | ---      |

| FLUID CLEANLINESS |  | method       | limit/base | current         | history1 | history2 |
|-------------------|--|--------------|------------|-----------------|----------|----------|
| Particles >4µm    |  | ASTM D7647   | >2500      | <b>2086</b>     | 130      | ---      |
| Particles >6µm    |  | ASTM D7647   | >1300      | <b>701</b>      | 39       | ---      |
| Particles >14µm   |  | ASTM D7647   | >160       | <b>91</b>       | 4        | ---      |
| Particles >21µm   |  | ASTM D7647   | >40        | <b>28</b>       | 2        | ---      |
| Particles >38µm   |  | ASTM D7647   | >10        | <b>3</b>        | 0        | ---      |
| Particles >71µm   |  | ASTM D7647   | >3         | <b>0</b>        | 0        | ---      |
| Oil Cleanliness   |  | ISO 4406 (c) | >18/17/14  | <b>18/17/14</b> | 14/12/9  | ---      |

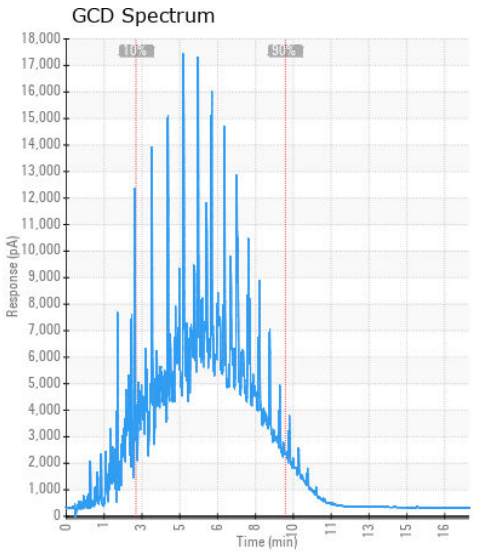
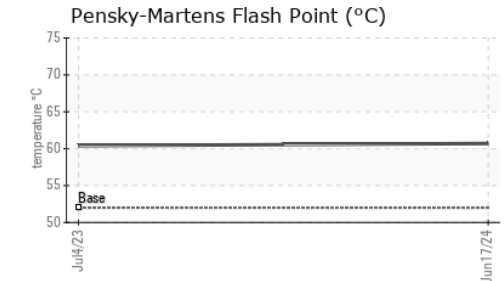
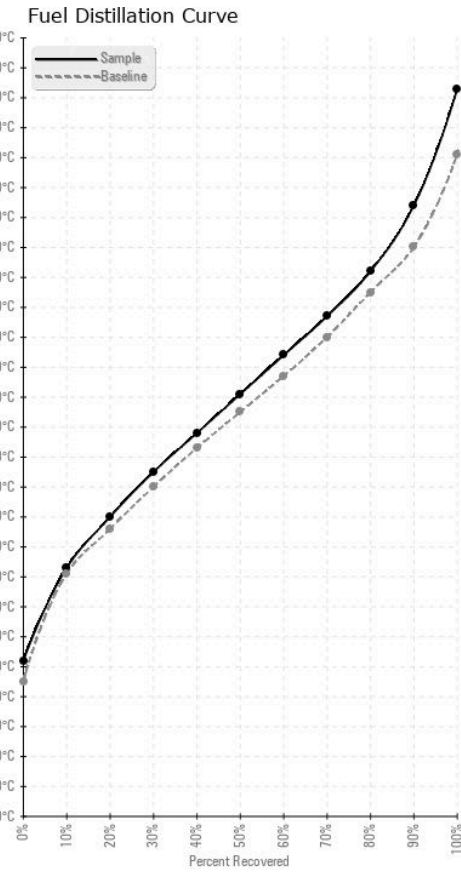
# FUEL REPORT



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

| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---------------|--------|------------|---------|----------|----------|
| Color         |        |            |         |          | no image |
| Bottom        |        |            |         |          | no image |

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WA0021957 **Received** : 26 Jun 2024  
**Lab Number** : **02644257** **Tested** : 02 Jul 2024  
**Unique Number** : 5801796 **Diagnosed** : 02 Jul 2024 - Kevin Marson  
**Test Package** : FUEL ( Additional Tests: CC Flash, PrtCount )

**Wajax Power Systems**  
 70 Raddall Avenue  
 Dartmouth, NS  
 CA B3B 1T7  
 Contact: Danelle Hoffman  
 dhoffman@wajax.com  
 T: (902)468-6200  
 F: (902)468-3325

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.