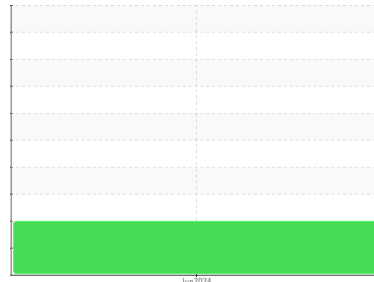




# FUEL REPORT

Sample Rating Trend



ISO



Machine Id  
**KIOTI NS4710HB VX1B-00175**  
 Component  
**Diesel Fuel**  
 Fluid  
**No.2 DIESEL FUEL (ULTRALOW SULPHUR) (--- GAL)**

## DIAGNOSIS

### Recommendation

We advise that you filter this fluid before use.

### Corrosion

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

### Contaminants

There is a high amount of particulates present in the fuel. The water content is negligible.

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

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>KT0001563</b>	---	---
Sample Date	Client Info	<b>04 Jun 2024</b>	---	---
Machine Age	hrs Client Info	<b>699</b>	---	---
Sample Status		<b>ABNORMAL</b>	---	---

## PHYSICAL PROPERTIES

method	limit/base	current	history1	history2
Fuel Color	text *Visual Screen	Yellow	<b>Red</b>	---
ASTM Color	scalar *ASTM D1500		<b>L4.5</b>	---
Visc @ 40°C	cSt ASTM D445	3.0	<b>2.66</b>	---
Pensky-Martens Flash Point	°C *PMCC Calculated	52	<b>65.3</b>	---

## SULFUR CONTENT

method	limit/base	current	history1	history2
Sulfur	ppm ASTM D5185m	10	<b>0</b>	---
Sulfur (UVF)	ppm ASTM D5453		<b>10</b>	---

## DISTILLATION

method	limit/base	current	history1	history2
Initial Boiling Point	°C ASTM D86	165	<b>178</b>	---
5% Distillation Point	°C ASTM D86		<b>197</b>	---
10% Distill Point	°C ASTM D86	201	<b>207</b>	---
15% Distillation Point	°C ASTM D86		<b>214</b>	---
20% Distill Point	°C ASTM D86	216	<b>222</b>	---
30% Distill Point	°C ASTM D86	230	<b>238</b>	---
40% Distill Point	°C ASTM D86	243	<b>252</b>	---
50% Distill Point	°C ASTM D86	255	<b>266</b>	---
60% Distill Point	°C ASTM D86	267	<b>282</b>	---
70% Distill Point	°C ASTM D86	280	<b>297</b>	---
80% Distill Point	°C ASTM D86	295	<b>313</b>	---
85% Distillation Point	°C ASTM D86		<b>324</b>	---
90% Distill Point	°C ASTM D86	310	<b>334</b>	---
95% Distillation Point	°C ASTM D86		<b>351</b>	---
Final Boiling Point	°C ASTM D86	341	<b>365</b>	---

## IGNITION QUALITY

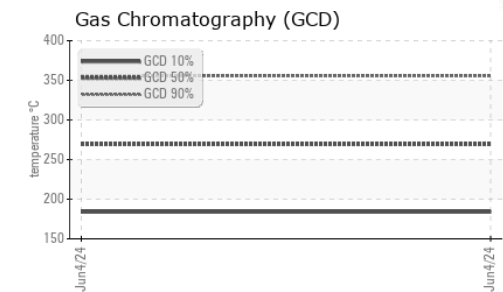
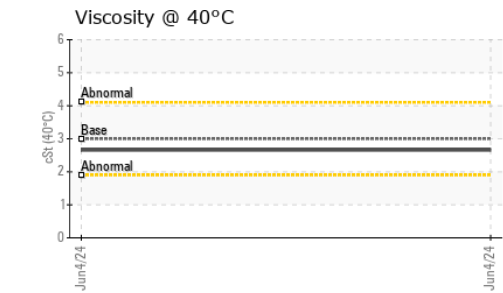
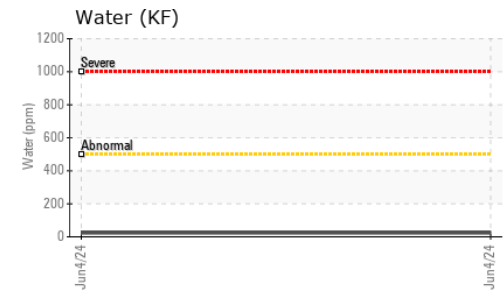
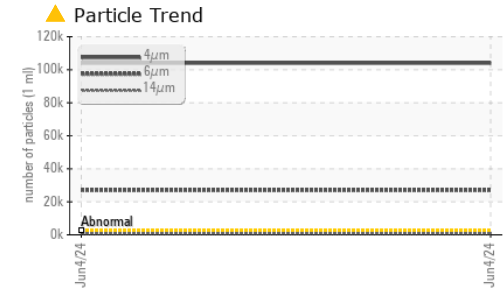
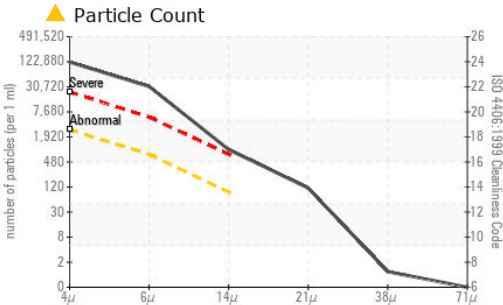
method	limit/base	current	history1	history2
API Gravity	ASTM D7777	37.7	<b>36</b>	---
Cetane Index	ASTM D4737	<40.0	<b>49</b>	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	<1.0	<b>&lt;1</b>	---
Sodium	ppm ASTM D5185m	<0.1	<b>1</b>	---
Potassium	ppm ASTM D5185m	<0.1	<b>1</b>	---
Water	% ASTM D6304	<0.05	<b>0.002</b>	---
ppm Water	ppm ASTM D6304	<500	<b>24</b>	---
% Gasoline	% *In-House	<0.50	<b>0.0</b>	---
% Biodiesel	% *In-House	<20.0	<b>1.7</b>	---



# FUEL REPORT

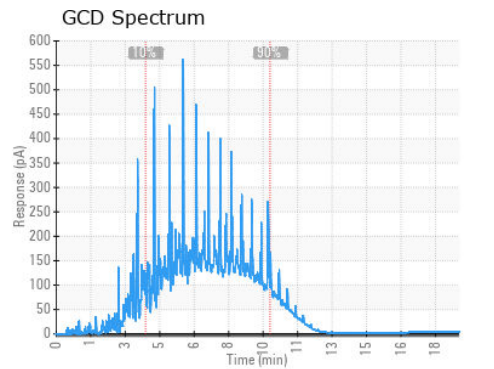
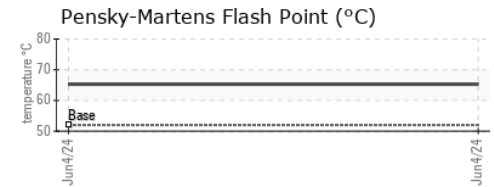
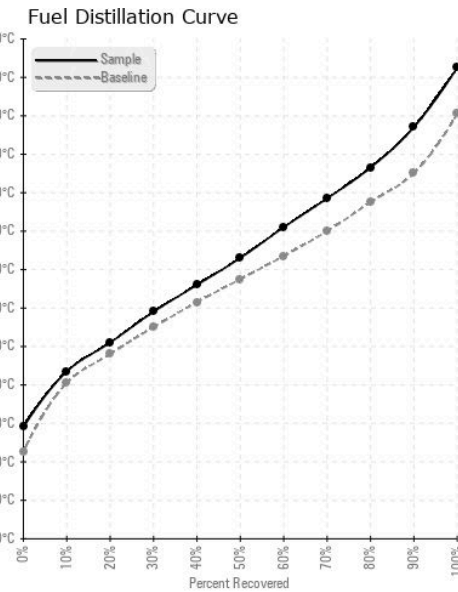


FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	▲ 104005	---	---
Particles >6µm	ASTM D7647	>640	▲ 27045	---	---
Particles >14µm	ASTM D7647	>80	▲ 838	---	---
Particles >21µm	ASTM D7647	>20	▲ 100	---	---
Particles >38µm	ASTM D7647	>4	1	---	---
Particles >71µm	ASTM D7647	>3	0	---	---
Oil Cleanliness	ISO 4406 (c)	>18/16/13	▲ 24/22/17	---	---

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	<1	---	---
Vanadium	ppm	ASTM D5185m <0.1	0	---	---
Iron	ppm	ASTM D5185m <0.1	0	---	---
Calcium	ppm	ASTM D5185m <0.1	<1	---	---
Magnesium	ppm	ASTM D5185m <0.1	2	---	---
Phosphorus	ppm	ASTM D5185m <0.1	1	---	---
Zinc	ppm	ASTM D5185m <0.1	0	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KT0001563  
**Lab Number** : 06206044  
**Unique Number** : 11073505  
**Test Package** : DF-2 ( Additional Tests: Fuel, Screen )  
**Received** : 10 Jun 2024  
**Tested** : 18 Jun 2024  
**Diagnosed** : 18 Jun 2024 - Angela Borella

**MILLER REPAIR LLC**  
 560 S PINE ST  
 MAXWELL, NE  
 US 69151

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact: Service Manager  
 tt.millerrepair@yahoo.com  
 T: (308)582-4303