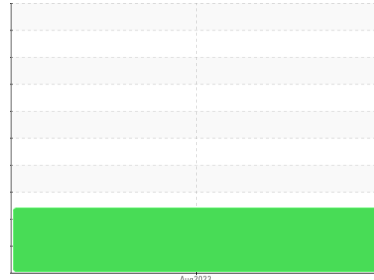




# FUEL REPORT

Sample Rating Trend



ISO



Machine Id  
**KIOTI NX6010HST TL6000098**

Component  
**Diesel Fuel**  
Fluid  
**NOT GIVEN (--- GAL)**

## DIAGNOSIS

### Recommendation

We advise that you filter this fluid before use. All laboratory tests indicate that this sample meets specifications for No.2 ultra-low-sulfur diesel fuel.

### Corrosion

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

### Contaminants

There is a high amount of particulates present in the fuel. There is no bacteria or fungus (yeast and/or mold) indicated in the sample. The water content is negligible.

### Fuel Condition

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>KT0000682</b>	---	---
Sample Date	Client Info			<b>17 Aug 2023</b>	---	---
Machine Age	hrs	Client Info		<b>562</b>	---	---
Sample Status				<b>ATTENTION</b>	---	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		*ASTM D1298		<b>0.845</b>	---	---
Fuel Color	text	*Visual Screen		<b>Yellow</b>	---	---
ASTM Color	scalar	*ASTM D1500		<b>1.5</b>	---	---
Visc @ 40°C	cSt	ASTM D445		<b>2.54</b>	---	---
Pensky-Martens Flash Point	°C	*PMCC Calculated		<b>54</b>	---	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		<b>63</b>	---	---
Sulfur (UVF)	ppm	ASTM D5453		<b>15</b>	---	---

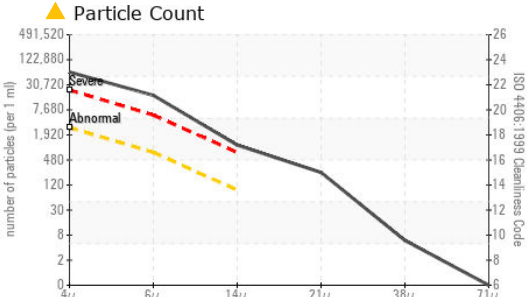
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86		<b>146</b>	---	---
5% Distillation Point	°C	ASTM D86		<b>187</b>	---	---
10% Distill Point	°C	ASTM D86		<b>201</b>	---	---
15% Distillation Point	°C	ASTM D86		<b>213</b>	---	---
20% Distill Point	°C	ASTM D86		<b>220</b>	---	---
30% Distill Point	°C	ASTM D86		<b>235</b>	---	---
40% Distill Point	°C	ASTM D86		<b>248</b>	---	---
50% Distill Point	°C	ASTM D86		<b>262</b>	---	---
60% Distill Point	°C	ASTM D86		<b>276</b>	---	---
70% Distill Point	°C	ASTM D86		<b>291</b>	---	---
80% Distill Point	°C	ASTM D86		<b>307</b>	---	---
85% Distillation Point	°C	ASTM D86		<b>316</b>	---	---
90% Distill Point	°C	ASTM D86		<b>3237</b>	---	---
95% Distillation Point	°C	ASTM D86		<b>344</b>	---	---
Final Boiling Point	°C	ASTM D86		<b>351</b>	---	---
Distillation Residue	%	ASTM D86		<b>1.4</b>	---	---
Distillation Loss	%	ASTM D86		<b>0.9</b>	---	---

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D7777		<b>36.0</b>	---	---
Cetane Index		ASTM D4737	<40.0	<b>47.0</b>	---	---

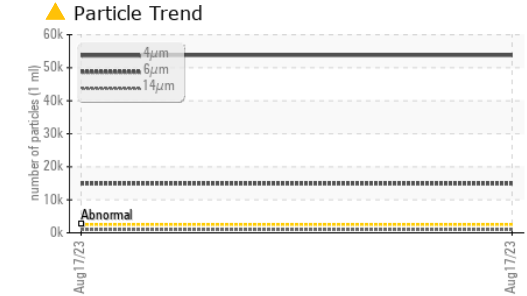
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	<b>3</b>	---	---
Sodium	ppm	ASTM D5185m	<0.1	<b>0</b>	---	---
Potassium	ppm	ASTM D5185m	<0.1	<b>&lt;1</b>	---	---
Water	%	ASTM D6304	<0.05	<b>0.008</b>	---	---
ppm Water	ppm	ASTM D6304	<500	<b>80.3</b>	---	---
% Gasoline	%	*In-House	<0.50	<b>0.0</b>	---	---
% Biodiesel	%	*In-House	<20.0	<b>0.0</b>	---	---



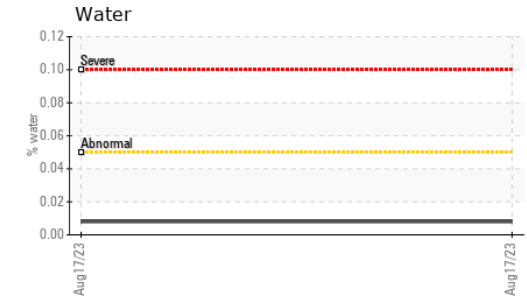
# FUEL REPORT



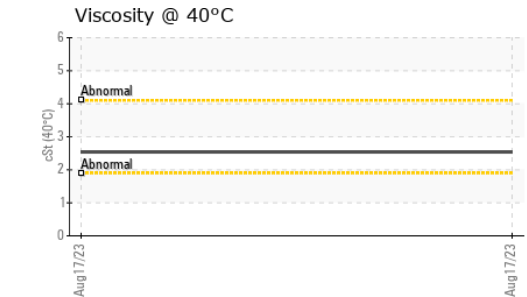
FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	▲ 53782	---	---
Particles >6µm	ASTM D7647	>640	▲ 14891	---	---
Particles >14µm	ASTM D7647	>80	▲ 960	---	---
Particles >21µm	ASTM D7647	>20	▲ 212	---	---
Particles >38µm	ASTM D7647	>4	▲ 5	---	---
Particles >71µm	ASTM D7647	>3	▲ 0	---	---
Oil Cleanliness	ISO 4406 (c)	>18/16/13	▲ 23/21/17	---	---



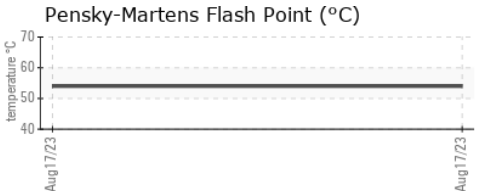
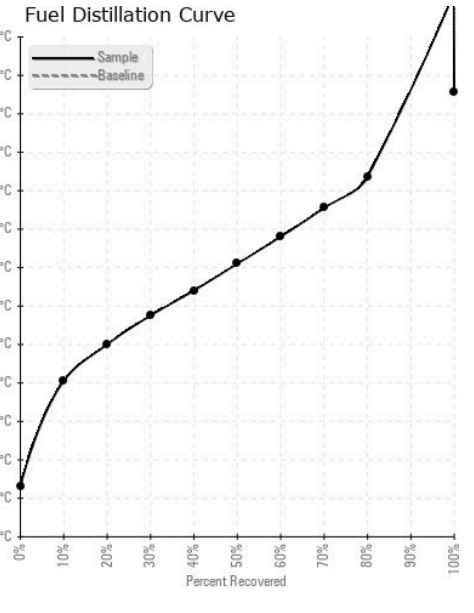
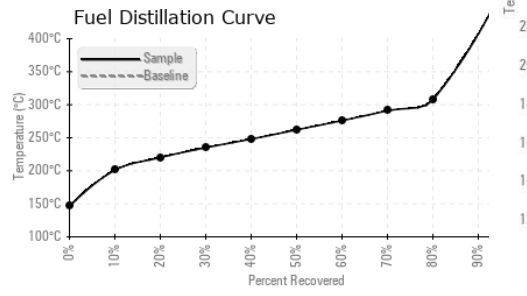
HEAVY METALS	method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m <0.1	0	---	---
Nickel	ppm	ASTM D5185m <0.1	0	---	---
Lead	ppm	ASTM D5185m <0.1	0	---	---
Vanadium	ppm	ASTM D5185m <0.1	0	---	---
Iron	ppm	ASTM D5185m <0.1	<1	---	---
Calcium	ppm	ASTM D5185m <0.1	1	---	---
Magnesium	ppm	ASTM D5185m <0.1	0	---	---
Phosphorus	ppm	ASTM D5185m <0.1	2	---	---
Zinc	ppm	ASTM D5185m <0.1	0	---	---



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



## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KT0000682      **Received** : 25 Aug 2023  
**Lab Number** : 05935808      **Diagnosed** : 01 Sep 2023  
**Unique Number** : 10621079      **Diagnostician** : Doug Bogart  
**Test Package** : DF-2 ( Additional Tests: Screen )

**VERMEER AG EAST TEXAS**  
 1200 S LOOP 7  
 ATHENS, TX  
 US 75752  
 Contact: KEITH LEWIS  
 service@vermeerageasttexas.com  
 T: (903)904-4049  
 F:

Certificate L2367  
 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)