

# **FUEL REPORT**

Sample Rating Trend



#### Machine Id

# **KIOTI YJJ800028**

Component Diesel Fuel

Fluid No.2 DIESEL FUEL (ULTRALOW SULPHUR) (--- 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. The water content is negligible. There is no bacteria or fungus (yeast and/or mold) indicated in the sample.

### **Fuel Condition**

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

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KT0000895		
Sample Date		Client Info		08 Apr 2024		
Machine Age	hrs	Client Info		61		
Sample Status				ABNORMAL		
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
ASTM Color	scalar	*ASTM D1500		L5.0		
Visc @ 40°C	cSt	ASTM D445	3.0	2.31		
Pensky-Martens Flash Point	°C	*PMCC Calculated	52	58.7		
SULFUR CONTEI	NT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	0		
Sulfur (UVF)	ppm	ASTM D5453		10		
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86	165	170		
5% Distillation Point	°C	ASTM D86		188		
10% Distill Point	°C	ASTM D86	201	198		
15% Distillation Point	°C	ASTM D86		205		
20% Distill Point	°C	ASTM D86	216	212		
30% Distill Point	°C	ASTM D86	230	227		
40% Distill Point	°C	ASTM D86	243	242		
50% Distill Point	°C	ASTM D86	255	256		
60% Distill Point	°C	ASTM D86	267	274		
70% Distill Point	°C	ASTM D86	280	291		
80% Distill Point	°C	ASTM D86	295	309		
85% Distillation Point	°C	ASTM D86		320		
90% Distill Point	°C	ASTM D86	310	330		
95% Distillation Point	°C	ASTM D86		345		
Final Boiling Point	°C	ASTM D86	341	359		
IGNITION QUALI	ΓY	method	limit/base	current	history1	history2
API Gravity		ASTM D7777	37.7	38		
Cetane Index		ASTM D4737	<40.0	50		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	<1		
Sodium	ppm	ASTM D5185m	<0.1	0		
Potassium	ppm	ASTM D5185m	<0.1	0		
Water	%	ASTM D6304	<0.05	0.003		
ppm Water	ppm	ASTM D6304	<500	37		
% Gasoline	%	*In-House	<0.50	0.0		
% Biodiesel	%	*In-House	<20.0	5.0		



491,520 122 88

(m 30,720 (m 7,680 1,920 1,920 480 480 120 30 30 8 30 8

mber of particles (1 ml)

# **FUEL REPORT**

current

current

0

0

0

<1

0

<1

0

0 0

current

8412 

history1

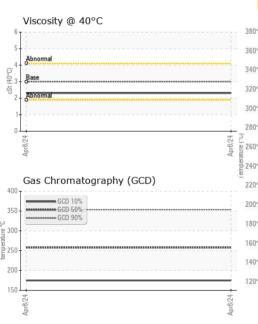
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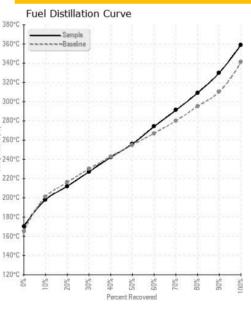
history1

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Death la Court					
A Particle Count	FLUID CLEANLIN	ESS	method	limit/base	
-24	Particles >4µm		ASTM D7647	>2500	<b></b>
1,720 Severe 22 8	Particles >6µm		ASTM D7647	>640	
6600 Abhommal -20 4406. 199 18 199 18 199 16 100 11	Particles >14µm		ASTM D7647	>80	<b></b>
480	Particles >21µm		ASTM D7647	>20	
	Particles >38µm		ASTM D7647	>4	1
	Particles >71µm		ASTM D7647	>3	(
	Oil Cleanliness		ISO 4406 (c)	>18/16/13	<b></b>
$0 \frac{1}{4\mu}$ $6\mu$ $14\mu$ $21\mu$ $38\mu$ $71\mu$	HEAVY METALS		method	limit/base	
A Particle Trend	Aluminum	ppm	ASTM D5185m	<0.1	(
4μm	Nickel	ppm	ASTM D5185m	<0.1	(
8k	Lead	ppm	ASTM D5185m	<0.1	
6 k -	Vanadium	ppm	ASTM D5185m	<0.1	
4k -	Iron	ppm	ASTM D5185m	<0.1	
Abnormal 2k	Calcium	ppm	ASTM D5185m	<0.1	
0k	Magnesium	ppm	ASTM D5185m	<0.1	
5 Apr8/24 +	Phosphorus	ppm	ASTM D5185m	<0.1	(
Apré Apré	Zinc	ppm	ASTM D5185m	<0.1	(
Water (KF)	SAMPLE IMAGES	6	method	limit/base	
1200 1000 800 600 Abnormal	Color				
400 200 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bottom				
A A					

GRAPHS







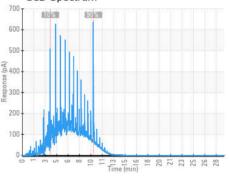
history2

history2

history2

no image

# GCD Spectrum



LARRYS DIESEL REPAIR Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 : KT0000895 260 N INDUSTRIAL DR Sample No. Received : 18 Apr 2024 Lab Number : 06153866 Tested :06 May 2024 FRONTENAC, KS Unique Number : 10989289 Diagnosed : 06 May 2024 - Doug Bogart US 66763 Test Package : DF-2 (Additional Tests: Fuel, Screen) Contact: LARRY R. Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. larry.r@larrysdiesel.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Report Id: LARFRO [WUSCAR] 06153866 (Generated: 05/06/2024 20:57:07) Rev: 1

Contact/Location: LARRY R. - LARFRO Page 2 of 2

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