

# FUEL REPORT

Sample Rating Trend



#### Machine Id

# KIOTI CS2520 CS2520 Gilbert (S/N YY8800670)

Component Tank Diesel Fuel

Fluid No.2 DIESEL FUEL (ULTRALOW SULPHUR) (--- GAL)

## DIAGNOSIS

#### Recommendation

All laboratory tests indicate that this sample meets specifications for No.2 ultra-low-sulfur diesel fuel. ( Customer Sample Comment: RUSH )

#### Corrosion

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

### Contaminants

The water content is negligible. There is no bacteria or fungus (yeast and/or mold) indicated in the sample. There is no indication of any contamination in the fuel. The amount and size of particulates present in the system are acceptable.

## **Fuel Condition**

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

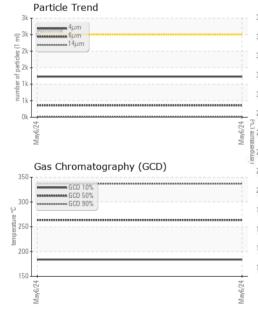
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KT0000447		
Sample Date		Client Info		06 May 2024		
Machine Age	hrs	Client Info		50		
Sample Status				NORMAL		
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
Fuel Color	text	*Visual Screen	Yllow	Yllow		
ASTM Color	scalar	*ASTM D1500		L3.0		
Visc @ 40°C	cSt	ASTM D445	3.0	2.5		
Pensky-Martens Flash Point	°C	*PMCC Calculated	52	62.1		
SULFUR CONTEI	NT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	2		
Sulfur (UVF)	ppm	ASTM D5453		10		
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86	165	173		
5% Distillation Point	°C	ASTM D86		196		
10% Distill Point	°C	ASTM D86	201	207		
15% Distillation Point	°C	ASTM D86		215		
20% Distill Point	°C	ASTM D86	216	223		
30% Distill Point	°C	ASTM D86	230	237		
40% Distill Point	°C	ASTM D86	243	248		
50% Distill Point	°C	ASTM D86	255	260		
60% Distill Point	°C	ASTM D86	267	272		
70% Distill Point	°C	ASTM D86	280	283		
80% Distill Point	°C	ASTM D86	295	297		
85% Distillation Point	°C	ASTM D86		307		
90% Distill Point	°C	ASTM D86	310	317		
95% Distillation Point	°C	ASTM D86		335		
Final Boiling Point	°C	ASTM D86	341	350		
IGNITION QUALI	ΓY	method	limit/base	current	history1	history2
API Gravity		ASTM D7777	37.7	34		
Cetane Index		ASTM D4737	<40.0	44		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	<1		
Sodium	ppm	ASTM D5185m	<0.1	1		
Potassium	ppm	ASTM D5185m	<0.1	<1		
Water	%	ASTM D6304	< 0.05	0.002		
ppm Water	ppm	ASTM D6304	<500	25		
% Gasoline	%	*In-House	<0.50	0.0		
% Biodiesel	%	*In-House	<20.0	0.0		



# **FUEL REPORT**

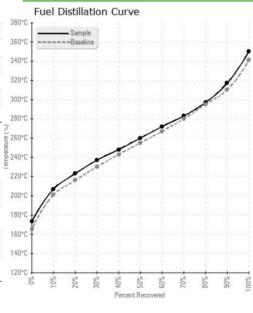
Part 491,520 -	icle Cou	nt			726	
122,880					120 124	P
≘ 30,720 Severe					-22 8	P
a),720 Develo	nal				-20 06:1999 Cleanliness Code -14 11 -12 s Code -14 -12 s Code	
· 1,920 · · · ·		· · · ·			-18 1999	F
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2-					-8	C
0 4µ	6µ	14µ	21µ	38µ	71µ	
Wat 1200 1000 600 400 400 400 400 400 400 400 400					Marki 24	A N L V Ir C M F Z
Visc	osity @	40°C				

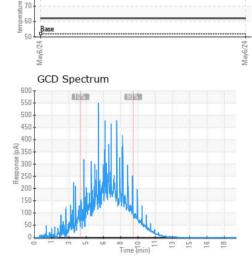




FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	1228		
Particles >6µm		ASTM D7647	>640	359		
Particles >14µm		ASTM D7647	>80	17		
Particles >21µm		ASTM D7647	>20	2		
Particles >38µm		ASTM D7647	>4	0		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>18/16/13	17/16/11		
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	<1		
Iron	ppm	ASTM D5185m	<0.1	0		
Calcium	ppm	ASTM D5185m	<0.1	0		
Magnesium	ppm	ASTM D5185m	<0.1	0		
Phosphorus	ppm	ASTM D5185m	<0.1	<1		
Zinc	ppm	ASTM D5185m	<0.1	0		
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color					no image	no image
Bottom					no image	no image
GRAPHS						

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Pensky-Martens Flash Point (°C)



CONCORD TRACTOR Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 : KT0000447 Received : 13 May 2024 164 DOVER RD Sample No. Lab Number : 06178278 Tested : 28 May 2024 CHICHESTER, NH Unique Number : 11029604 Diagnosed : 28 May 2024 - Doug Bogart US 03258 Test Package : DF-2 (Additional Tests: Fuel, Screen) Contact: KATELYN RYAN Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. parts@concordtractornh.com \* - 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)

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Submitted By: KATELYN RYAN Page 2 of 2

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