

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.

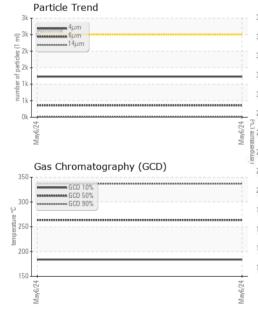
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KT0000447		
Sample Date		Client Info		06 May 2024		
Machine Age	hrs	Client Info		50		
Sample Status				NORMAL		
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
Fuel Color	text	*Visual Screen	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		



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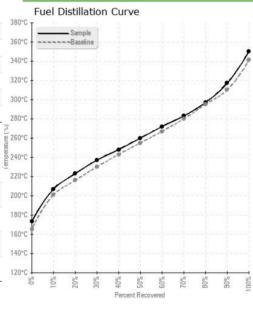
Part 491,520 -	icle Cou	nt			726	
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0 4µ	6µ	14µ	21µ	38µ	71µ	
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Visc	osity @	40°C				

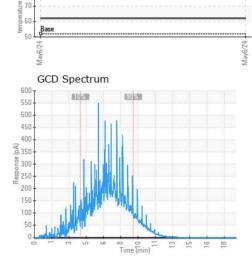




FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	1228		
Particles >6µm		ASTM D7647	>640	359		
Particles >14µm		ASTM D7647	>80	17		
Particles >21µm		ASTM D7647	>20	2		
Particles >38µm		ASTM D7647	>4	0		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		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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