

FUEL REPORT

Sample Rating Trend



Machine Id

KIOTI CS2520 CS2520 Kellett (S/N

Tank Diesel Fuel Fluid

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

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. (Customer Sample Comment: Rush)

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.

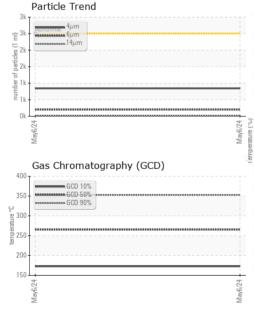
5/N PY88A0	478)					
) (GAL)				May2024		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KT0000442		
Sample Date		Client Info		06 May 2024		
Machine Age	hrs	Client Info		8		
Sample Status				NORMAL		
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
Fuel Color	text	*Visual Screen	Yllow	Yllow		
ASTM Color	scalar	*ASTM D1500		L3.0		
Visc @ 40°C	cSt	ASTM D445	3.0	2.34		
Pensky-Martens Flash Point	°C	*PMCC Calculated	52	56.4		
SULFUR CONTE	NT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	5		
Sulfur (UVF)	ppm	ASTM D5185III	10	12		
DISTILLATION		method	limit/base		history1	history2
Initial Boiling Point	°C	ASTM D86	165	163		
5% Distillation Point	°C	ASTM D86	105	185		
10% Distill Point	°C	ASTM D00	201	195		
15% Distillation Point	°C	ASTM D86	201	204		
20% Distill Point	°C	ASTM D00	216	214		
30% Distill Point	°C	ASTM D86	230	231		
40% Distill Point	°C	ASTM D86	243	247		
50% Distill Point	°C	ASTM D86	255	262		
60% Distill Point	°C	ASTM D86	267	278		
70% Distill Point	°C	ASTM D86	280	293		
80% Distill Point	°C	ASTM D86	295	309		
85% Distillation Point	°C	ASTM D86	200	320		
90% Distill Point	°C	ASTM D00	310	330		
95% Distillation Point		ASTM D86		345		
Final Boiling Point	°C	ASTM D86	341	357		
IGNITION QUALIT		method	limit/base		history1	history2
API Gravity		ASTM D7777	37.7	41		
Cetane Index		ASTM D4737	<40.0	57		
CONTAMINANTS		method	limit/base		history1	history2
					· · · · · · · · · · · · · · · · · · ·	
Silicon Sodium	ppm	ASTM D5185m	<1.0	<1 1		
	ppm	ASTM D5185m	<0.1			
Potassium Water	ppm %	ASTM D5185m ASTM D6304	<0.1 <0.05	<1 0.003		
		ASTM D6304 ASTM D6304	<0.05 <500	37		
ppm Water % Gasoline	ppm					
	%	*In-House	<0.50	0.0		
% Biodiesel	%	*In-House	<20.0	0.0		



FUEL REPORT

491,520 T	ticle Cour	nt			τ26	
122,880					120 124	
					22 8	
30,720 Severe 7,680 Abnon 1,920 - 480 - 120 - 30 - 8						
1,920	nai	-			-20 Cleanliness	
480					-16 👷	
120-					14 1	
30-					-12 🖁	
8-					-10 6	
2 -					-8	
0. 4µ	6µ	14µ	21µ	38µ	71µ	
1200 1000 Seve	ter (KF) ®					
1200 1000 - Seve	re					
1200 1000 Seve	re					
1200 1000 - Seve (mdd) sate 400	re					
1200 - Sever 1000 - Sever 1	re					
1200 1000 Seve 800 400 200	re				24	
1200 1000 Seve 800 400 200	re				Jay6/24	
1200 - Sever 1000 - Sever 1	re				Map6.24	
1200 1000 800 (Eud) 1400 200 0 172/9/28/W	re	40°C			May6/24	
1200 1000 800 (Eud) 1400 200 0 172/9/28/W	re ormal	40°C			May6.24	





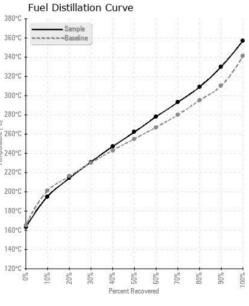
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	843		
Particles >6µm		ASTM D7647	>640	202		
Particles >14µm		ASTM D7647	>80	13		
Particles >21µm		ASTM D7647	>20	4		
Particles >38µm		ASTM D7647	>4	0		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>18/16/13	17/15/11		
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	<1		
Phosphorus	ppm	ASTM D5185m	<0.1	<1		
Zinc	ppm	ASTM D5185m	<0.1	<1		
SAMPLE IMAGES		method	limit/base	current	history1	history2
			1			

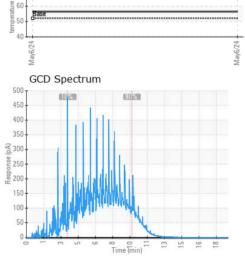
Color





GRAPHS





Pensky-Martens Flash Point (°C)

no image

no image



: WearCheck USA - 501 Madison Ave., Cary, NC 27513 CONCORD TRACTOR Laboratory Sample No. : KT0000442 Received : 13 May 2024 164 DOVER RD Lab Number : 06178277 Tested : 28 May 2024 CHICHESTER, NH Unique Number : 11029603 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)

Submitted By: KATELYN RYAN Page 2 of 2

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