

FUEL REPORT



KIOTI VL9300324

Component 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.

Corrosion

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

Contaminants

The water content is negligible. 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	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KT0001564		
Sample Date		Client Info		06 Jun 2024		
Machine Age	hrs	Client Info		122		
Sample Status				NORMAL		
PHYSICAL PROP	FRTIES	method	limit/base	current	history1	history2
Fuel Color	text	*Visual Screen	Yllow	Yllow		
ASTM Color	scalar	*ASTM D1500	YIIOW	L3.0		
Visc @ 40°C	cSt	ASTM D1300	3.0	2.42		
Pensky-Martens Flash Point	°C	*PMCC Calculated	52	59		
,	-			33		
SULFUR CONTER	NT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	0		
Sulfur (UVF)	ppm	ASTM D5453		11		
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86	165	169		
5% Distillation Point	°C	ASTM D86		191		
10% Distill Point	°C	ASTM D86	201	200		
15% Distillation Point	°C	ASTM D86		208		
20% Distill Point	°C	ASTM D86	216	216		
30% Distill Point	°C	ASTM D86	230	232		
40% Distill Point	°C	ASTM D86	243	246		
50% Distill Point	°C	ASTM D86	255	261		
60% Distill Point	°C	ASTM D86	267	275		
70% Distill Point	°C	ASTM D86	280	290		
80% Distill Point	°C	ASTM D86	295	306		
85% Distillation Point	°C	ASTM D86		317		
90% Distill Point	°C	ASTM D86	310	328		
95% Distillation Point	°C	ASTM D86		346		
Final Boiling Point	°C	ASTM D86	341	362		
IGNITION QUALIT	ΓY	method	limit/base	current	history1	history2
API Gravity		ASTM D7777	37.7	37		
Cetane Index		ASTM D4737	<40.0	50		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	0		
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	22		
% Gasoline	%	*In-House	<0.50	2.2		
% Biodiesel	%	*In-House	<20.0	0.0		



number of particles (per 1 ml)

ž Abr

> n DC/Bam

particles (1 ml) 75 st 31 st 3

b 1

n,

400

350

ي 200 ي

g 250

200

150

10/9 mil

Particle Trend

Gas Chromatography (GCD)

GCD 10%

GCD 90%

FUEL REPORT

Particle Count	FLUID CLEANLIN	ESS
122,88024	Particles >4µm	
30,720 Severe -22 8	Particles >6µm	
7,680 Abnormal	Particles >14µm	
480 16 2	Particles >21µm	
7.680 Abnormal 1,920 460 16 199 CleanInness 460 120 120 14 12 12 12 12 12 12 12 12 12 12 12 12 12	Particles >38µm	
30	Particles >71µm	
	Oil Cleanliness	
$0_{4\mu}$ 6μ 14μ 21μ 38μ 71μ	HEAVY METALS	
Water (KF)	Aluminum	ppm
1000 - Severe	Nickel	ppm
= 800	Lead	ppm
	Vanadium	ppm
	Iron	ppm
200	Calcium	ppm
200	Magnesium	ppm
- Jun6/24 -	Phosphorus	ppm
	Zinc	ppm
Viscosity @ 40°C	SAMPLE IMAGES	;
6 5 4 4	Color	
0 3 Base		

in6/74

10/9/

200°C

180°C

160°C

140°C

120°C

106/74

10%

30% 20%

40% 50%

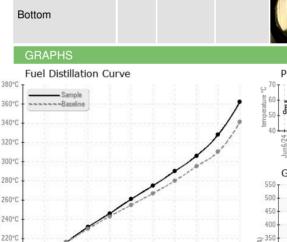
Perc

t Recovered

70% 30% 30%



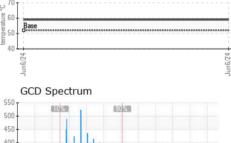
701

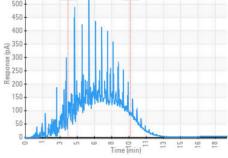


Pensky-Martens Flash Point (°C)

no image

no image







STRAUB OUTDOOR POWER Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 : KT0001564 : 10 Jun 2024 14101 BIG CYNTHIANA RD Sample No. Received Lab Number : 06206043 Tested : 18 Jun 2024 EVANSVILLE, IN Unique Number : 11073504 Diagnosed : 18 Jun 2024 - Angela Borella Test Package : DF-2 (Additional Tests: Fuel, Screen) Contact: MIKE ELPERS Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. mike@strauboutdoorpower.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (812)305-5013 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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Contact/Location: MIKE ELPERS - STREVA

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