DF II KIOTI

FUEL REPORT

CORROSION	NORMAL
CONTAMINANTS	ABNORMAL
FUEL CONDITION	NORMAL

Machine Id
KIOTI CK3510 TP9400510
Component
Diesel Fuel
Fluid
No.2 DIESEL FUEL (ULTRALOW SULPHUR) (--- GAL)

RECOMMENDATION

Laboratory test indicate that this fuel is suitable for use and meets all test requirements. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.

CORROSION

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

CONTAMINANTS

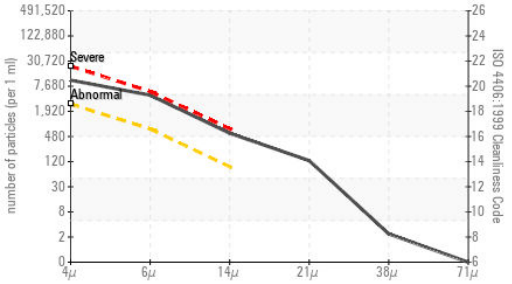
There is a high amount of particulates present in the fuel. The water content is negligible.

FUEL CONDITION

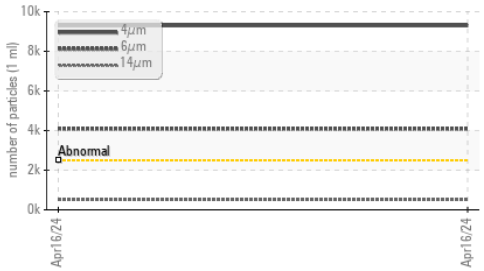
All laboratory tests indicate that this sample meets specifications for No.2 diesel fuel, low sulfur (US EPA/CGSB-3.517-3 type B). Sulfur level is acceptable for ULSD specification.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KT0000899	---	---
Sample Date		Client Info		16 Apr 2024	---	---
Machine Age	hrs	Client Info		2654	---	---
Sample Status				ABNORMAL	---	---
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	---	---
Silicon	ppm	ASTM D5185m	<1.0	0	---	---
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	27	---	---
Particles >4µm		ASTM D7647	>2500	▲ 9298	---	---
Particles >6µm		ASTM D7647	>640	▲ 4092	---	---
Particles >14µm		ASTM D7647	>80	▲ 505	---	---
Particles >21µm		ASTM D7647	>20	▲ 112	---	---
Particles >38µm		ASTM D7647	>4	2	---	---
Particles >71µm		ASTM D7647	>3	0	---	---
Oil Cleanliness		ISO 4406 (c)	>18/16/13	▲ 20/19/16	---	---
% Gasoline	%	*In-House	<0.50	0.0	---	---
% Biodiesel	%	*In-House	<20.0	0.0	---	---
Calcium	ppm	ASTM D5185m	<0.1	<1	---	---
Magnesium	ppm	ASTM D5185m	<0.1	0	---	---
Phosphorus	ppm	ASTM D5185m	<0.1	0	---	---
Zinc	ppm	ASTM D5185m	<0.1	0	---	---
ASTM Color	scalar	*ASTM D1500		L1.0	---	---
Visc @ 40°C	cSt	ASTM D445	3.0	2.42	---	---
Pensky-Martens Flash Point	°C	*PMCC Calculated	52	59	---	---
Sulfur	ppm	ASTM D5185m	10	0	---	---
Sulfur (UVF)	ppm	ASTM D5453		10	---	---
Initial Boiling Point	°C	ASTM D86	165	169	---	---
10% Distill Point	°C	ASTM D86	201	201	---	---
20% Distill Point	°C	ASTM D86	216	217	---	---
30% Distill Point	°C	ASTM D86	230	232	---	---
40% Distill Point	°C	ASTM D86	243	245	---	---
50% Distill Point	°C	ASTM D86	255	259	---	---
60% Distill Point	°C	ASTM D86	267	273	---	---
70% Distill Point	°C	ASTM D86	280	286	---	---
80% Distill Point	°C	ASTM D86	295	302	---	---
90% Distill Point	°C	ASTM D86	310	323	---	---
Final Boiling Point	°C	ASTM D86	341	354	---	---
API Gravity		ASTM D7777	37.7	37	---	---
Cetane Index		ASTM D4737	<40.0	48	---	---

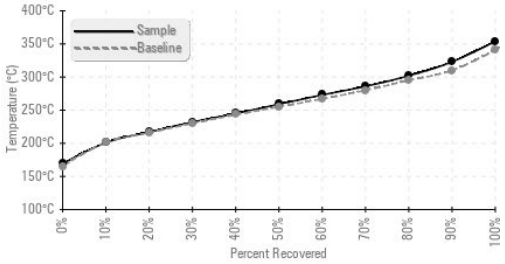
Particle Count



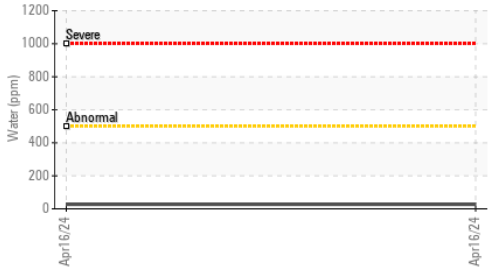
Particle Trend



Fuel Distillation Curve

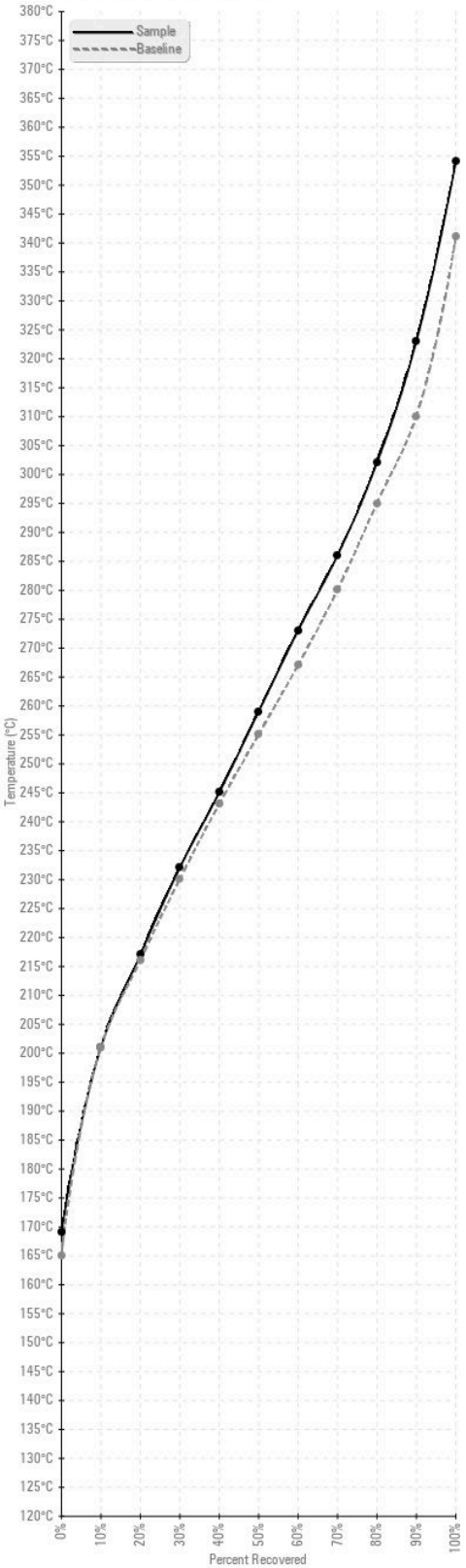


Water (KF)

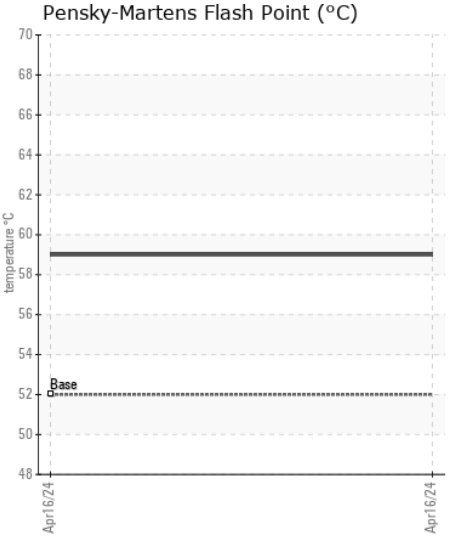


Viscosity @ 40°C

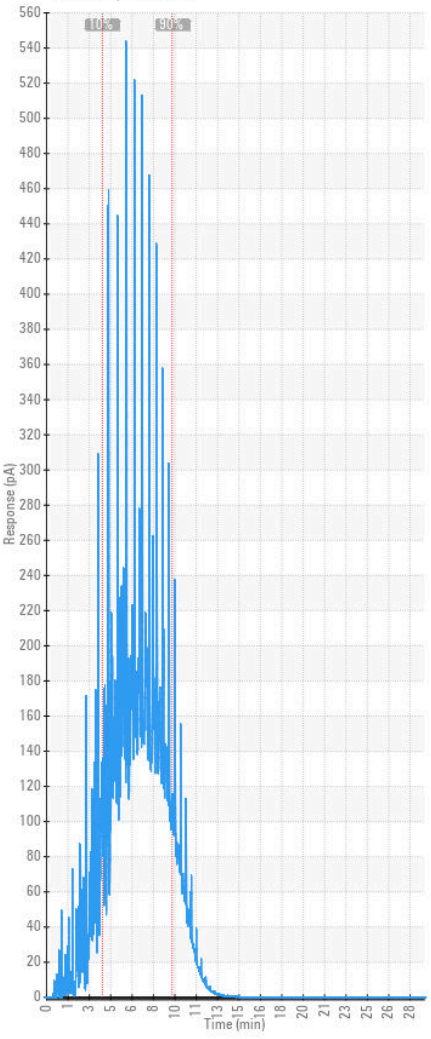
Fuel Distillation Curve



Pensky-Martens Flash Point (°C)



GCD Spectrum



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KT0000899 **Received** : 18 Apr 2024
Lab Number : 06153865 **Tested** : 30 Apr 2024
Unique Number : 10989288 **Diagnosed** : 30 Apr 2024 - Angela Borella
Test Package : DF-2 (Additional Tests: Fuel, Screen)

To discuss this sample report, contact Customer Service at 1-800-237-1369.
** - 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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