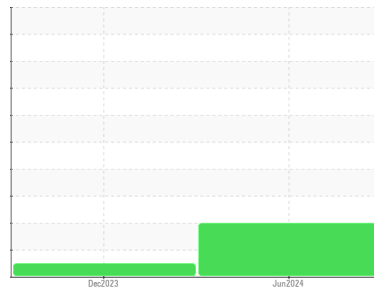




FUEL REPORT

Sample Rating Trend



ISO



Machine Id
KIOTI ZX6620 6323 (S/N VW4800002)
 Component
Diesel Fuel
 Fluid
DIESEL FUEL No. 2 (--- GAL)

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.

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.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			KT0000903	KT0000643	---
Sample Date	Client Info			25 Jun 2024	08 Dec 2023	---
Machine Age	hrs	Client Info		0	970	---
Sample Status				ABNORMAL	NORMAL	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		*ASTM D1298		0.837	0.818	---
Fuel Color	text	*Visual Screen		Orang	Yellow	---
ASTM Color	scalar	*ASTM D1500		L3.5	L3.5	---
Pensky-Martens Flash Point	°C	*PMCC Calculated		70.6	55	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		0	0	---
Sulfur (UVF)	ppm	ASTM D5453		5	5	---

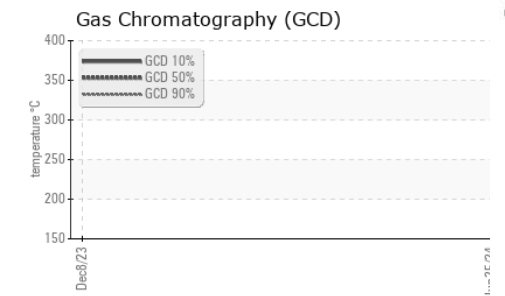
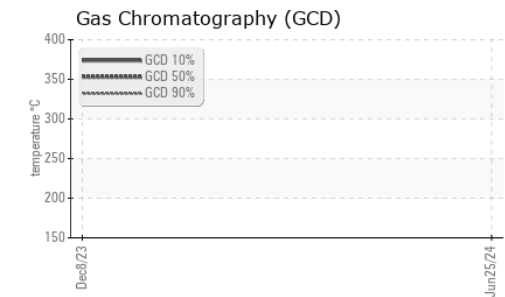
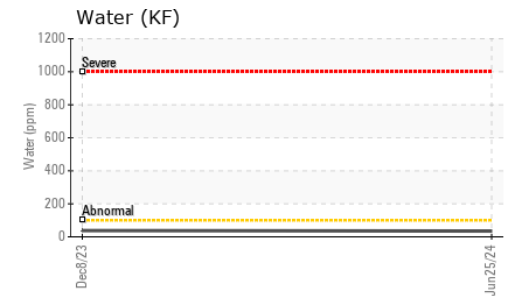
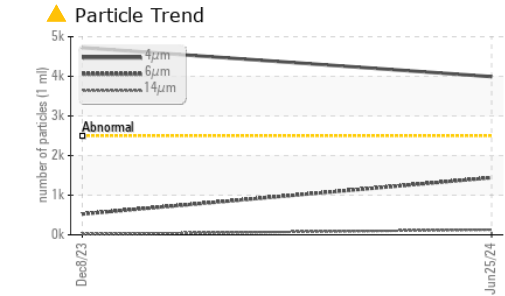
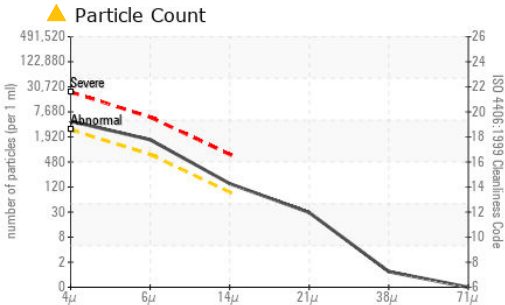
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86		184	154	---
5% Distillation Point	°C	ASTM D86		208	206	---
10% Distill Point	°C	ASTM D86		217	228	---
15% Distillation Point	°C	ASTM D86		225	243	---
20% Distill Point	°C	ASTM D86		231	253	---
30% Distill Point	°C	ASTM D86		243	271	---
40% Distill Point	°C	ASTM D86		255	282	---
50% Distill Point	°C	ASTM D86		268	290	---
60% Distill Point	°C	ASTM D86		282	296	---
70% Distill Point	°C	ASTM D86		295	303	---
80% Distill Point	°C	ASTM D86		309	310	---
85% Distillation Point	°C	ASTM D86		317	315	---
90% Distill Point	°C	ASTM D86		327	323	---
95% Distillation Point	°C	ASTM D86		343	335	---
Final Boiling Point	°C	ASTM D86		352	344	---
Distillation Residue	%	ASTM D86		1.4	1.4	---
Distillation Loss	%	ASTM D86		0.7	0.4	---

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D7777		37.6	41.5	---
Cetane Index		ASTM D4737	<40.0	52.3	67.2	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	0	0	---
Sodium	ppm	ASTM D5185m	<0.1	<1	<1	---
Potassium	ppm	ASTM D5185m	<0.1	0	0	---
Water	%	ASTM D6304	<0.05	0.003	0.003	---
ppm Water	ppm	ASTM D6304	<500	35	38	---
% Gasoline	%	*In-House	<0.50	0.0	0.0	---
% Biodiesel	%	*In-House	<20.0	5.3	10.9	---




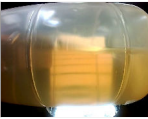
FUEL REPORT



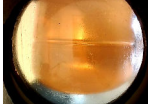

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	▲ 3992	4724	---
Particles >6µm	ASTM D7647	>640	▲ 1442	524	---
Particles >14µm	ASTM D7647	>80	▲ 128	17	---
Particles >21µm	ASTM D7647	>20	▲ 26	5	---
Particles >38µm	ASTM D7647	>4	1	0	---
Particles >71µm	ASTM D7647	>3	0	0	---
Oil Cleanliness	ISO 4406 (c)	>18/16/13	▲ 19/18/14	19/16/11	---

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	0	---
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	0	---
Zinc	ppm	ASTM D5185m	<0.1	0	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

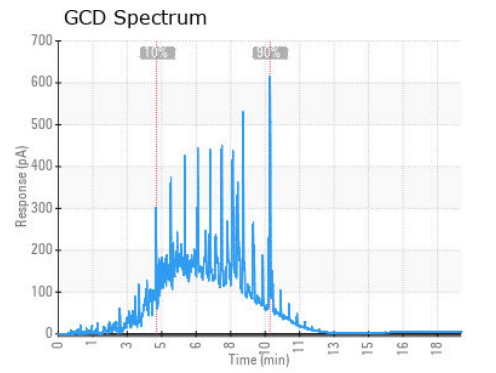
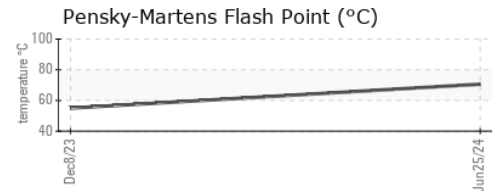
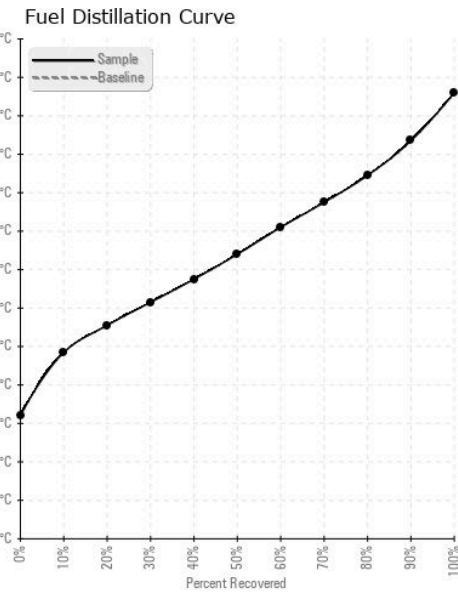



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GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KT0000903 **Received** : 25 Jun 2024
Lab Number : 06220591 **Tested** : 02 Jul 2024
Unique Number : 11098788 **Diagnosed** : 02 Jul 2024 - Doug Bogart
Test Package : DF-2 (Additional Tests: Fuel, Screen)

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 1201 S UNION AVE
 BAKERSFIELD, CA
 US 93305
 Contact: FRED Jauch
 fred@sanjoaquintractor.com
 T: (661)324-4517
 F: (661)324-2306

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)