



FUEL REPORT

CORROSION	NORMAL
CONTAMINANTS	ABNORMAL
FUEL CONDITION	NORMAL

Machine Id
Kioti NX4510CH 4396

Component
D Diesel Fuel

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

RECOMMENDATION

We advise that you follow the water drain-off procedure for this component. We advise that you filter this fluid before use.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KT0001554	---	---
Sample Date		Client Info		23 May 2024	---	---
Machine Age	hrs	Client Info		374	---	---
Sample Status				ABNORMAL	---	---

CORROSION

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

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	---	---

CONTAMINANTS

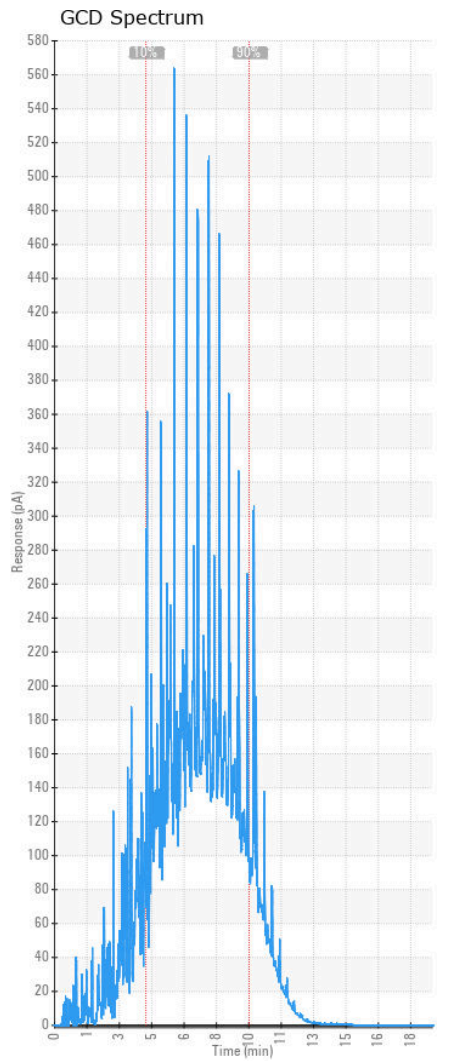
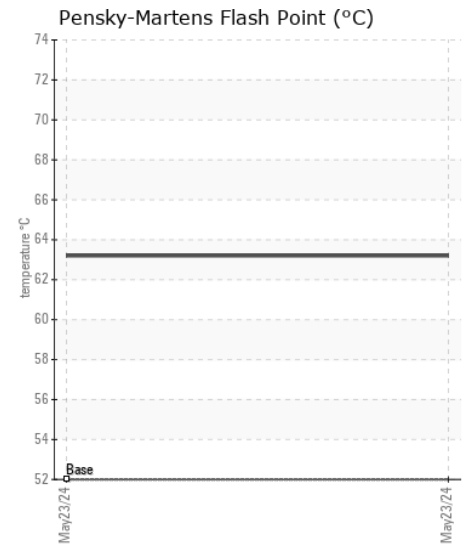
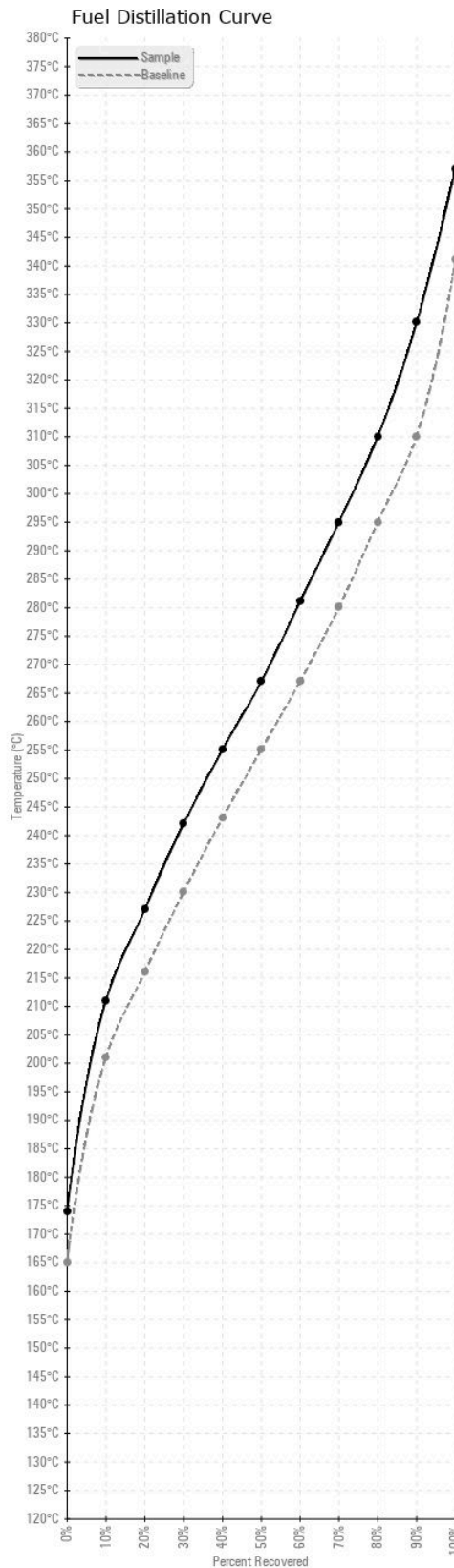
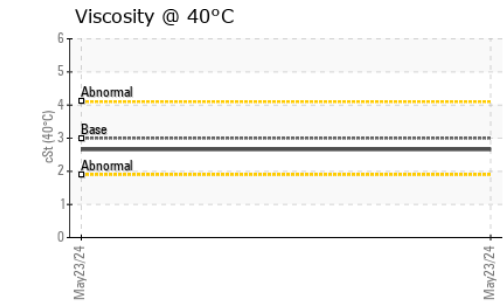
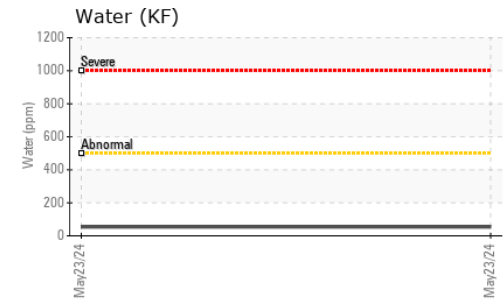
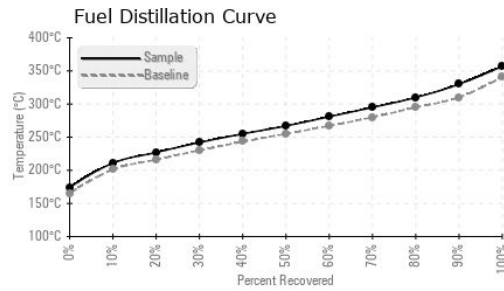
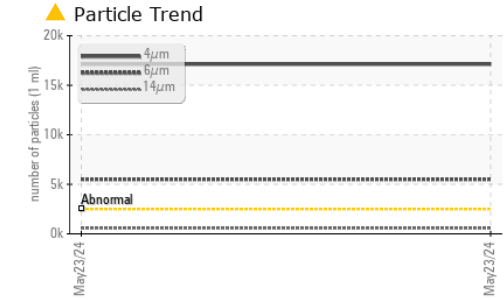
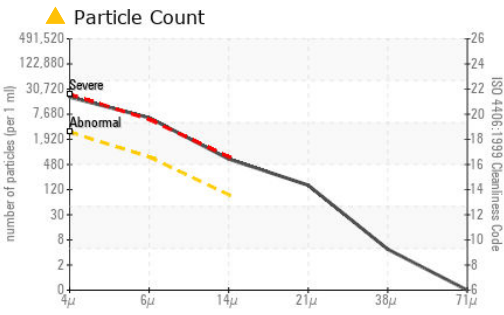
There is a high amount of particulates present in the fuel. Free water present. There is no bacteria or fungus (yeast and/or mold) present in the sample.

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	0.005	---	---
ppm Water	ppm	ASTM D6304	<500	54	---	---
Particles >4µm		ASTM D7647	>2500	▲ 17121	---	---
Particles >6µm		ASTM D7647	>640	▲ 5498	---	---
Particles >14µm		ASTM D7647	>80	▲ 570	---	---
Particles >21µm		ASTM D7647	>20	▲ 135	---	---
Particles >38µm		ASTM D7647	>4	4	---	---
Particles >71µm		ASTM D7647	>3	0	---	---
Oil Cleanliness		ISO 4406 (c)	>18/16/13	▲ 21/20/16	---	---
% Gasoline	%	*In-House	<0.50	0.0	---	---
% Biodiesel	%	*In-House	<20.0	1.5	---	---
Bacteria	CFU/ml	WC-Method	≥100000	0	---	---
Yeast	CFU/ml	WC-Method	≥100000	0	---	---
Mold	Colonies	WC-Method	MODER	---	---	---
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	---	---

FUEL CONDITION

Sulfur value derived by ASTM D5453 method for ULSD validation. Sulfur level is acceptable for ULSD specification.

Fuel Color	text	*Visual Screen	Yllow	Yllow	---	---
ASTM Color	scalar	*ASTM D1500		L3.0	---	---
Visc @ 40°C	cSt	ASTM D445	3.0	2.66	---	---
Pensky-Martens Flash Point	°C	*PMCC Calculated	52	63.2	---	---
Sulfur	ppm	ASTM D5185m	10	0	---	---
Sulfur (UVF)	ppm	ASTM D5453		10	---	---
Initial Boiling Point	°C	ASTM D86	165	174	---	---
10% Distill Point	°C	ASTM D86	201	211	---	---
20% Distill Point	°C	ASTM D86	216	227	---	---
30% Distill Point	°C	ASTM D86	230	242	---	---
40% Distill Point	°C	ASTM D86	243	255	---	---
50% Distill Point	°C	ASTM D86	255	267	---	---
60% Distill Point	°C	ASTM D86	267	281	---	---
70% Distill Point	°C	ASTM D86	280	295	---	---
80% Distill Point	°C	ASTM D86	295	310	---	---
90% Distill Point	°C	ASTM D86	310	330	---	---
Final Boiling Point	°C	ASTM D86	341	357	---	---
API Gravity		ASTM D7777	37.7	36	---	---
Cetane Index		ASTM D4737	<40.0	48	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KT0001554
Lab Number : 06191766
Unique Number : 11048518
Test Package : DF-2 (Additional Tests: BACTERIA, Fuel, Screen)

SOUTHERN STAR TRACTOR
 3456 S BURLESON BLVD
 ALVARADO, TX
 US 76009

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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