



FUEL REPORT

Sample Rating Trend



NORMAL



Area
{UNASSIGNED}
 Machine Id
Kioti YR7600348
 Component
After 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

There is no bacteria or fungus (yeast and/or mold) indicated in the sample. The water content is negligible. There is no indication of any contamination in the fuel. 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 INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	KT0001499	---	---
Sample Date	Client Info	24 May 2024	---	---
Machine Age	hrs Client Info	229	---	---
Sample Status		NORMAL	---	---

PHYSICAL PROPERTIES

method	limit/base	current	history1	history2
ASTM Color	scalar *ASTM D1500	L3.5	---	---
Visc @ 40°C	cSt ASTM D445	2.85	---	---
Pensky-Martens Flash Point	°C *PMCC Calculated	65.6	---	---

SULFUR CONTENT

method	limit/base	current	history1	history2
Sulfur	ppm ASTM D5185m	0	---	---
Sulfur (UVF)	ppm ASTM D5453	9	---	---

DISTILLATION

method	limit/base	current	history1	history2	
Initial Boiling Point	°C ASTM D86	165	178	---	---
5% Distillation Point	°C ASTM D86		208	---	---
10% Distill Point	°C ASTM D86	201	220	---	---
15% Distillation Point	°C ASTM D86		228	---	---
20% Distill Point	°C ASTM D86	216	237	---	---
30% Distill Point	°C ASTM D86	230	251	---	---
40% Distill Point	°C ASTM D86	243	263	---	---
50% Distill Point	°C ASTM D86	255	274	---	---
60% Distill Point	°C ASTM D86	267	287	---	---
70% Distill Point	°C ASTM D86	280	300	---	---
80% Distill Point	°C ASTM D86	295	314	---	---
85% Distillation Point	°C ASTM D86		323	---	---
90% Distill Point	°C ASTM D86	310	332	---	---
95% Distillation Point	°C ASTM D86		347	---	---
Final Boiling Point	°C ASTM D86	341	362	---	---

IGNITION QUALITY

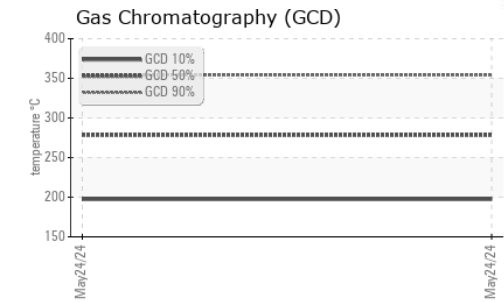
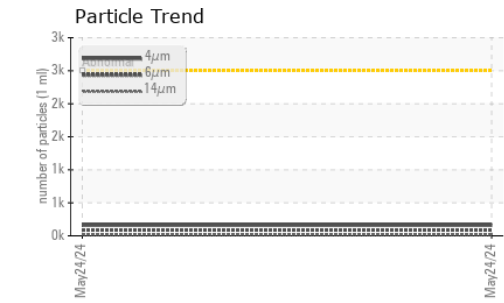
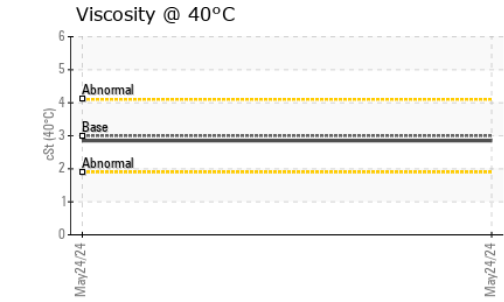
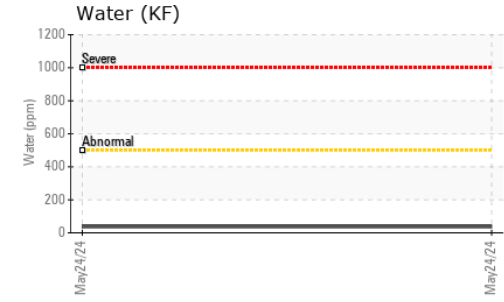
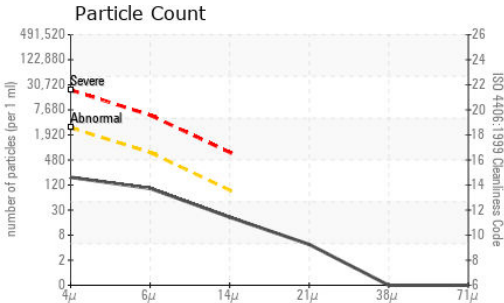
method	limit/base	current	history1	history2	
API Gravity	ASTM D7777	37.7	35	---	---
Cetane Index	ASTM D4737	<40.0	50	---	---

CONTAMINANTS

method	limit/base	current	history1	history2	
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	0.003	---	---
ppm Water	ppm ASTM D6304	<500	37	---	---
% Gasoline	% *In-House	<0.50	0.0	---	---
% Biodiesel	% *In-House	<20.0	3.1	---	---



FUEL REPORT

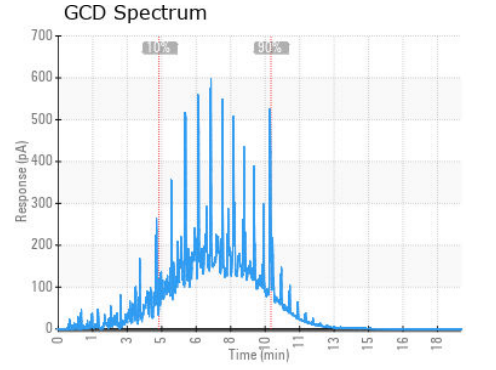
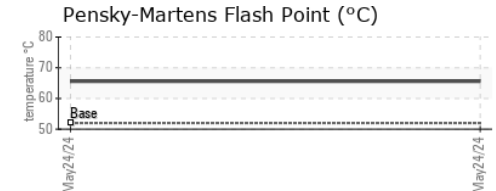
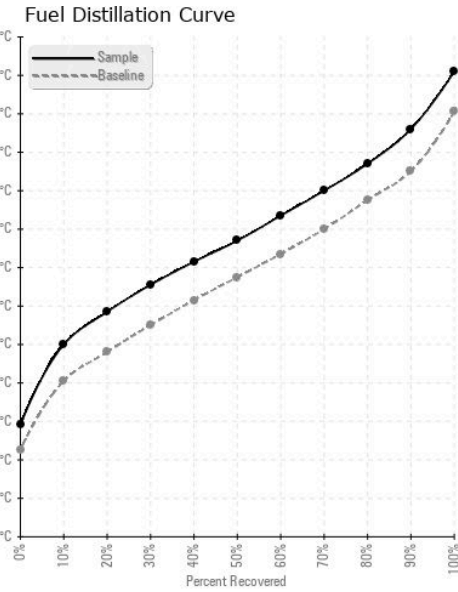


FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	162	---	---
Particles >6µm	ASTM D7647	>640	88	---	---
Particles >14µm	ASTM D7647	>80	18	---	---
Particles >21µm	ASTM D7647	>20	4	---	---
Particles >38µm	ASTM D7647	>4	0	---	---
Particles >71µm	ASTM D7647	>3	0	---	---
Oil Cleanliness	ISO 4406 (c)	>18/16/13	15/14/11	---	---

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	<1	---	---
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
Color				no image	no image
Bottom				no image	no image

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KT0001499 **Received** : 03 Jun 2024
Lab Number : **06198651** **Tested** : 10 Jun 2024
Unique Number : 11060774 **Diagnosed** : 10 Jun 2024 - Doug Bogart
Test Package : DF-2 (Additional Tests: Fuel, Screen)

SOUTHERN POWER EQUIPMENT
 802 HIGHWAY 182
 HOUMA, LA
 US 70364
 Contact: DAVID NELTON
 david.nelton@spehouma.com

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)