



FUEL REPORT

Sample Rating Trend



NORMAL



Machine Id
KOHLER E-5
 Component
Diesel Fuel
 Fluid
 DIESEL FUEL No. 2 (--- GAL)

DIAGNOSIS

Recommendation

All laboratory tests indicate that this sample meets specifications for No.2 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.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			WC0882488	---	---
Sample Date	Client Info			08 Feb 2024	---	---
Machine Age	hrs	Client Info		0	---	---
Sample Status				NORMAL	---	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Fuel Color	text	*Visual Screen		Orange	---	---
ASTM Color	scalar	*ASTM D1500		L3.5	---	---
Visc @ 40°C	cSt	ASTM D445	4.1	2.57	---	---
Pensky-Martens Flash Point	°C	*PMCC Calculated		60.2	---	---
Cloud Point	°C	ASTM D5771		-12	---	---
Pour Point	°C	ASTM D5950		-39	---	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		0	---	---
Sulfur (UVF)	ppm	ASTM D5453		42	---	---

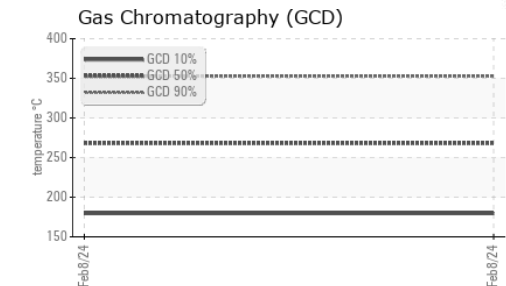
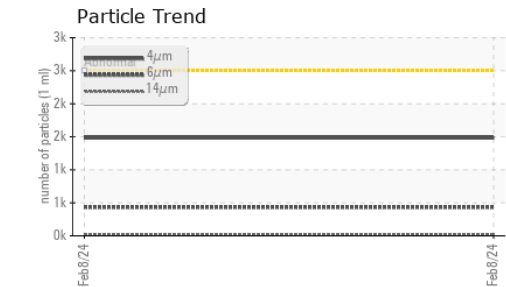
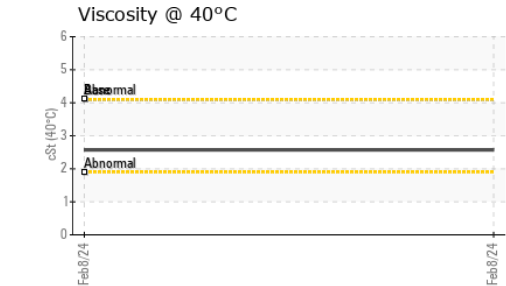
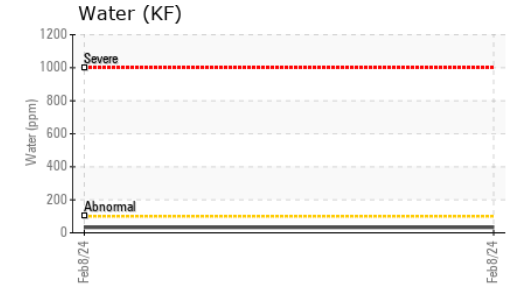
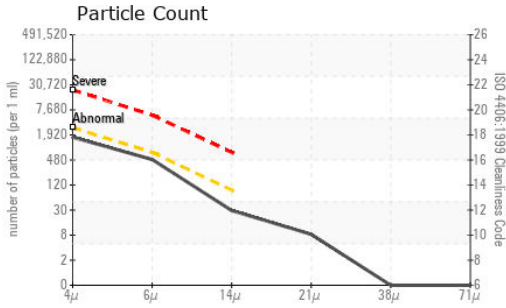
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86		170	---	---
5% Distillation Point	°C	ASTM D86		192	---	---
10% Distill Point	°C	ASTM D86		202	---	---
15% Distillation Point	°C	ASTM D86		211	---	---
20% Distill Point	°C	ASTM D86		219	---	---
30% Distill Point	°C	ASTM D86		235	---	---
40% Distill Point	°C	ASTM D86		250	---	---
50% Distill Point	°C	ASTM D86		265	---	---
60% Distill Point	°C	ASTM D86		279	---	---
70% Distill Point	°C	ASTM D86		294	---	---
80% Distill Point	°C	ASTM D86		310	---	---
85% Distillation Point	°C	ASTM D86		320	---	---
90% Distill Point	°C	ASTM D86		330	---	---
95% Distillation Point	°C	ASTM D86		345	---	---
Final Boiling Point	°C	ASTM D86		358	---	---

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D7777		36	---	---
Cetane Index		ASTM D4737	<40.0	47	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	<1	---	---
Sodium	ppm	ASTM D5185m	<0.1	0	---	---
Potassium	ppm	ASTM D5185m	<0.1	<1	---	---
Water	%	ASTM D6304	<0.05	0.003	---	---
ppm Water	ppm	ASTM D6304	<500	33	---	---
% Gasoline	%	*In-House	<0.50	0.0	---	---
% Biodiesel	%	*In-House	<20.0	1.2	---	---



FUEL REPORT

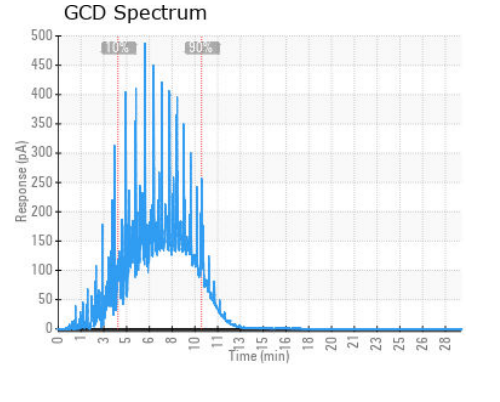
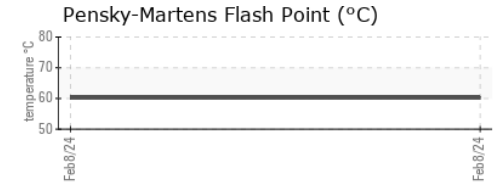
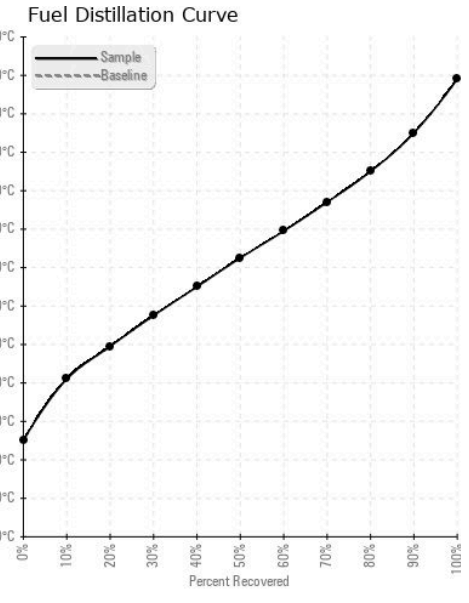


FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	1483	---	---
Particles >6µm	ASTM D7647	>640	433	---	---
Particles >14µm	ASTM D7647	>80	26	---	---
Particles >21µm	ASTM D7647	>20	7	---	---
Particles >38µm	ASTM D7647	>4	0	---	---
Particles >71µm	ASTM D7647	>3	0	---	---
Oil Cleanliness	ISO 4406 (c)	>18/16/13	18/16/12	---	---

HEAVY METALS	method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m <0.1	2	---	---
Nickel	ppm	ASTM D5185m <0.1	<1	---	---
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	3	---	---
Magnesium	ppm	ASTM D5185m <0.1	<1	---	---
Phosphorus	ppm	ASTM D5185m <0.1	0	---	---
Zinc	ppm	ASTM D5185m <0.1	0	---	---

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. : WC0882488
Lab Number : 06124470
Unique Number : 10938621
Test Package : FUEL (Additional Tests: CldPt, Color-ASTM, Fuel, GC-PercFuel, PourPt, PrtCont, RFSQ)

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 scott@negerator.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)

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