



FUEL REPORT

Sample Rating Trend



ISO



Machine Id
KOHLER E-18
 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. There is no bacteria or fungus (yeast and/or mold) indicated in the sample. The water content is negligible.

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			WC0882480	---	---
Sample Date	Client Info			07 Feb 2024	---	---
Machine Age	hrs	Client Info		0	---	---
Sample Status				ABNORMAL	---	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Fuel Color	text	*Visual Screen		Yellow	---	---
ASTM Color	scalar	*ASTM D1500		L3.5	---	---
Visc @ 40°C	cSt	ASTM D445	4.1	2.49	---	---
Pensky-Martens Flash Point	°C	*PMCC Calculated		58	---	---
Cloud Point	°C	ASTM D5771		-13	---	---
Pour Point	°C	ASTM D5950		-30	---	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		0	---	---
Sulfur (UVF)	ppm	ASTM D5453		12	---	---

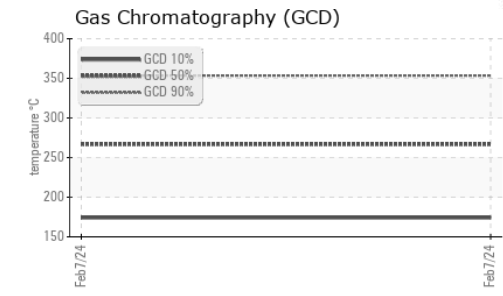
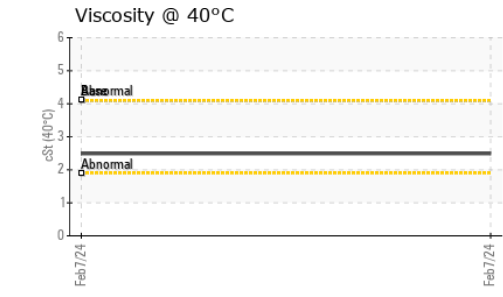
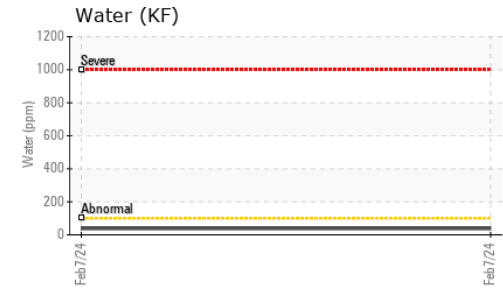
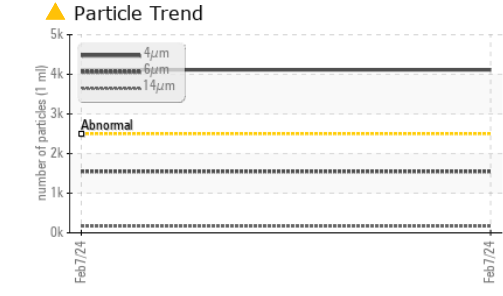
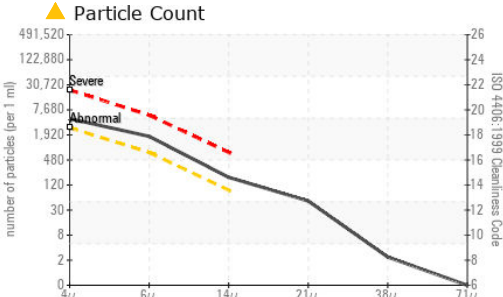
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86		167	---	---
5% Distillation Point	°C	ASTM D86		187	---	---
10% Distill Point	°C	ASTM D86		198	---	---
15% Distillation Point	°C	ASTM D86		207	---	---
20% Distill Point	°C	ASTM D86		216	---	---
30% Distill Point	°C	ASTM D86		233	---	---
40% Distill Point	°C	ASTM D86		249	---	---
50% Distill Point	°C	ASTM D86		264	---	---
60% Distill Point	°C	ASTM D86		279	---	---
70% Distill Point	°C	ASTM D86		295	---	---
80% Distill Point	°C	ASTM D86		311	---	---
85% Distillation Point	°C	ASTM D86		321	---	---
90% Distill Point	°C	ASTM D86		331	---	---
95% Distillation Point	°C	ASTM D86		345	---	---
Final Boiling Point	°C	ASTM D86		359	---	---

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	<1	---	---
Potassium	ppm	ASTM D5185m	<0.1	<1	---	---
Water	%	ASTM D6304	<0.05	0.003	---	---
ppm Water	ppm	ASTM D6304	<500	38	---	---
% Gasoline	%	*In-House	<0.50	0.0	---	---
% Biodiesel	%	*In-House	<20.0	2.1	---	---



FUEL REPORT

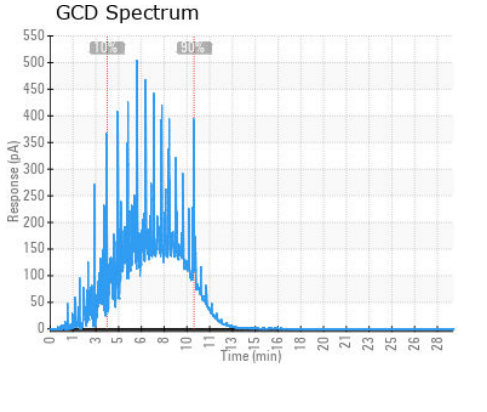
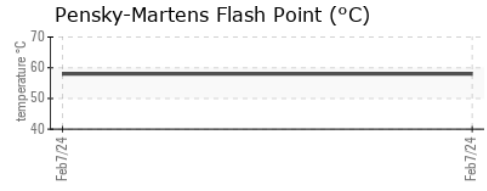
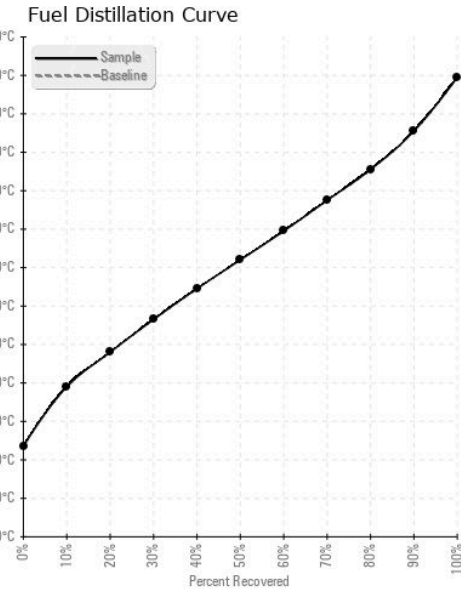


FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	● 4112	---	---
Particles >6µm	ASTM D7647	>640	▲ 1550	---	---
Particles >14µm	ASTM D7647	>80	▲ 162	---	---
Particles >21µm	ASTM D7647	>20	▲ 44	---	---
Particles >38µm	ASTM D7647	>4	2	---	---
Particles >71µm	ASTM D7647	>3	0	---	---
Oil Cleanliness	ISO 4406 (c)	>18/16/13	▲ 19/18/15	---	---

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. : WC0882480
Lab Number : **06124468**
Unique Number : 10938619
Test Package : FUEL (Additional Tests: CldPt, Color-ASTM, Fuel, GC-PercFuel, PourPt, PrtCont, RSC)

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 Contact: SCOTT MATTHEWS
 scott@neregulator.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)