



FUEL REPORT

Sample Rating Trend



NORMAL



Machine Id
YX9700021

Component
Diesel Fuel

Fluid
DIESEL FUEL No. 1 (--- QTS)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. 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 value derived by ASTM D5453 method for ULSD validation.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			KT0001575	---	---
Sample Date	Client Info			05 Apr 2024	---	---
Machine Age	hrs	Client Info		559	---	---
Sample Status				NORMAL	---	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
ASTM Color	scalar	*ASTM D1500		L4.0	---	---
Visc @ 40°C	cSt	ASTM D445	2.4	2.94	---	---
Pensky-Martens Flash Point	°C	*PMCC Calculated		66.1	---	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		0	---	---
Sulfur (UVF)	ppm	ASTM D5453		11	---	---

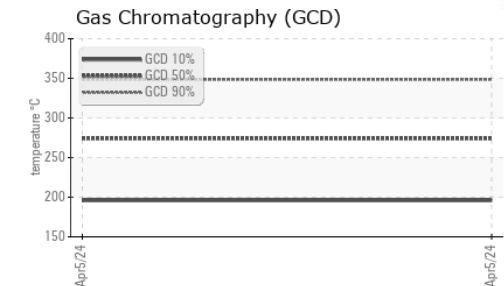
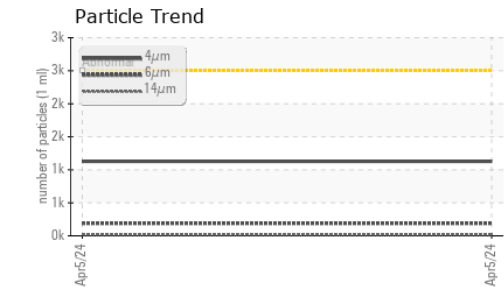
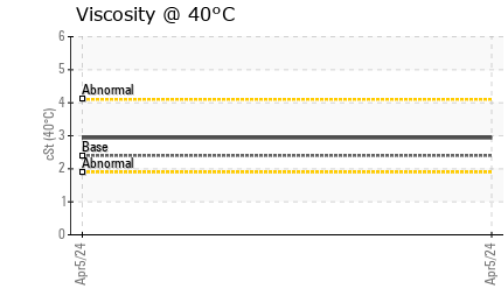
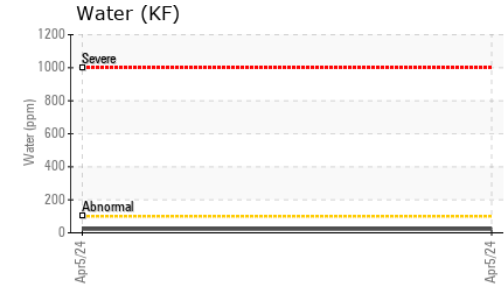
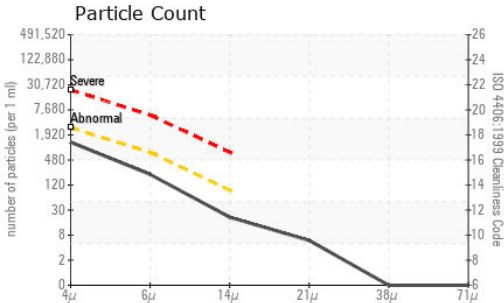
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86		179	---	---
5% Distillation Point	°C	ASTM D86		207	---	---
10% Distill Point	°C	ASTM D86		217	---	---
15% Distillation Point	°C	ASTM D86		224	---	---
20% Distill Point	°C	ASTM D86		232	---	---
30% Distill Point	°C	ASTM D86		246	---	---
40% Distill Point	°C	ASTM D86		258	---	---
50% Distill Point	°C	ASTM D86		270	---	---
60% Distill Point	°C	ASTM D86		282	---	---
70% Distill Point	°C	ASTM D86		295	---	---
80% Distill Point	°C	ASTM D86		308	---	---
85% Distillation Point	°C	ASTM D86		318	---	---
90% Distill Point	°C	ASTM D86		328	---	---
95% Distillation Point	°C	ASTM D86		345	---	---
Final Boiling Point	°C	ASTM D86		360	---	---

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D7777		33	---	---
Cetane Index		ASTM D4737	<40.0	44	---	---

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	0	---	---
Water	%	ASTM D6304	<0.05	0.002	---	---
ppm Water	ppm	ASTM D6304	<500	23	---	---
% Gasoline	%	*In-House	<0.50	0.0	---	---
% Biodiesel	%	*In-House	<20.0	0.0	---	---



FUEL REPORT

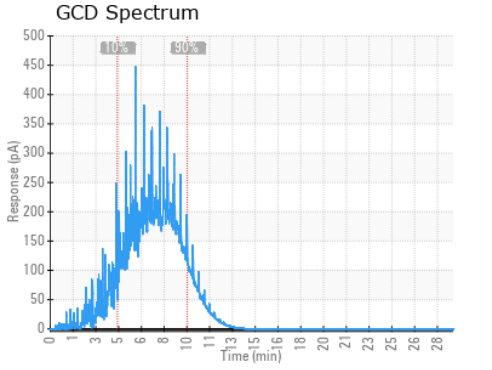
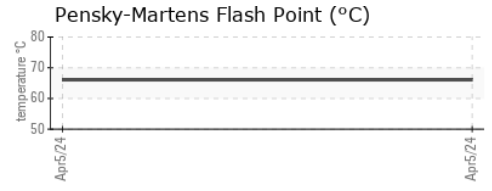
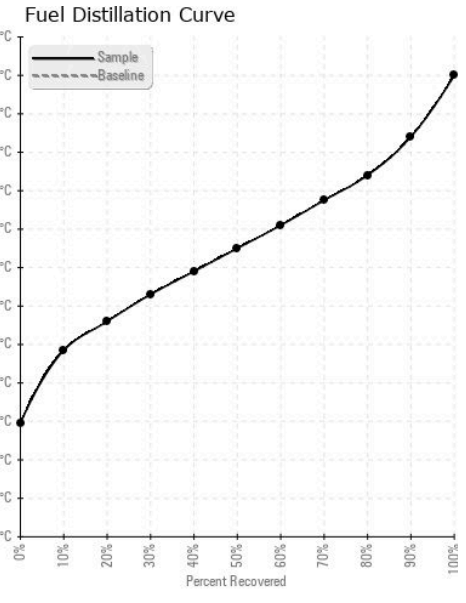


FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	1127	---	---
Particles >6µm	ASTM D7647	>640	190	---	---
Particles >14µm	ASTM D7647	>80	18	---	---
Particles >21µm	ASTM D7647	>20	5	---	---
Particles >38µm	ASTM D7647	>4	0	---	---
Particles >71µm	ASTM D7647	>3	0	---	---
Oil Cleanliness	ISO 4406 (c)	>18/16/13	17/15/11	---	---

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	2	---	---
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. : KT0001575 **Received** : 19 Apr 2024
Lab Number : **06155445** **Tested** : 02 May 2024
Unique Number : 10990868 **Diagnosed** : 02 May 2024 - Doug Bogart
Test Package : DF-2 (Additional Tests: Fuel, Screen)

BOBCAT OF MANDAN
 4209 MEMORIAL HWY
 MANDAN, ND
 US 58554
 Contact: MIKE PAGE
 michael@bobcatofmandan.com
 T: (701)541-4057
 F:

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)