



FUEL REPORT

Sample Rating Trend



NORMAL



Area
OWENSBORO HEALTH OFFSITE BRACKENRIDGE [FW17629]
 Machine Id
[OWENSBORO HEALTH OFFSITE BRACKENRIDGE] BMOB
 Component
Diesel Fuel
 Fluid
No.2 DIESEL FUEL (ULTRALOW SULPHUR) (500 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	WC06206046	---	---
Sample Date	Client Info	30 May 2024	---	---
Machine Age	hrs Client Info	0	---	---
Sample Status		NORMAL	---	---

PHYSICAL PROPERTIES

method	limit/base	current	history1	history2
Fuel Color	text *Visual Screen	Yellow	Red	---
ASTM Color	scalar *ASTM D1500		L4.5	---
Visc @ 40°C	cSt ASTM D445	3.0	2.5	---
Pensky-Martens Flash Point	°C *PMCC Calculated	52	60.1	---

SULFUR CONTENT

method	limit/base	current	history1	history2
Sulfur	ppm ASTM D5185m	10	13	---
Sulfur (UVF)	ppm ASTM D5453		68	---

DISTILLATION

method	limit/base	current	history1	history2
Initial Boiling Point	°C ASTM D86	165	171	---
5% Distillation Point	°C ASTM D86		198	---
10% Distill Point	°C ASTM D86	201	208	---
15% Distillation Point	°C ASTM D86		216	---
20% Distill Point	°C ASTM D86	216	224	---
30% Distill Point	°C ASTM D86	230	238	---
40% Distill Point	°C ASTM D86	243	251	---
50% Distill Point	°C ASTM D86	255	264	---
60% Distill Point	°C ASTM D86	267	277	---
70% Distill Point	°C ASTM D86	280	290	---
80% Distill Point	°C ASTM D86	295	304	---
85% Distillation Point	°C ASTM D86		314	---
90% Distill Point	°C ASTM D86	310	323	---
95% Distillation Point	°C ASTM D86		340	---
Final Boiling Point	°C ASTM D86	341	355	---

IGNITION QUALITY

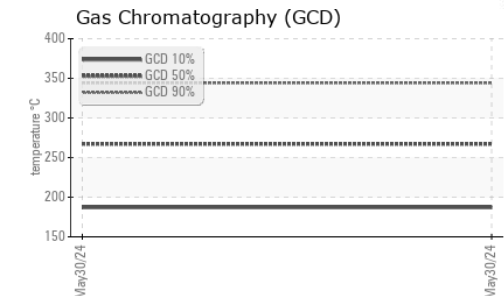
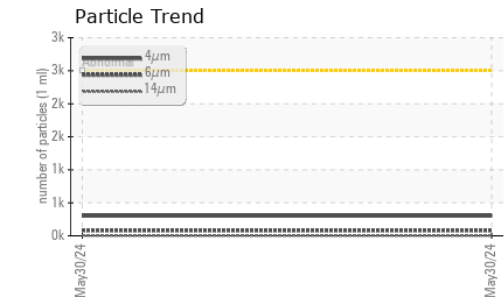
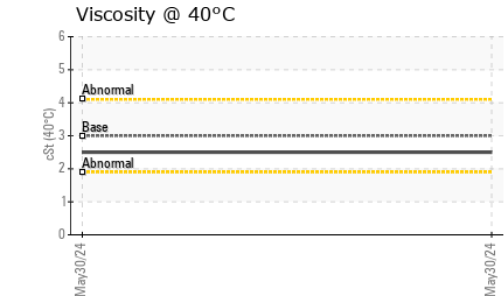
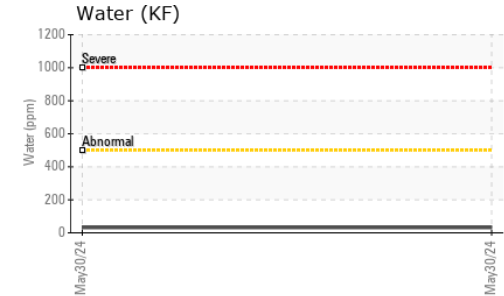
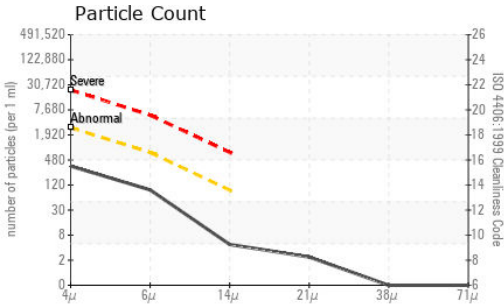
method	limit/base	current	history1	history2
API Gravity	ASTM D7777	37.7	36	---
Cetane Index	ASTM D4737	<40.0	48	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	<1.0	0	---
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	32	---
% Gasoline	% *In-House	<0.50	0	---
% Biodiesel	% *In-House	<20.0	0.0	---



FUEL REPORT

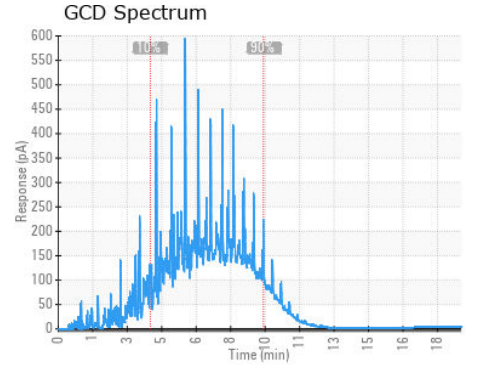
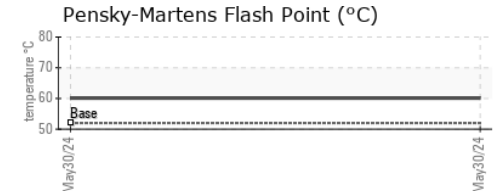
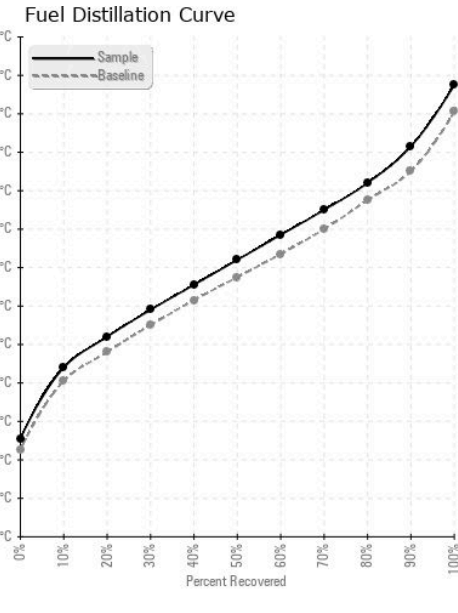


FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	301	---	---
Particles >6µm	ASTM D7647	>640	81	---	---
Particles >14µm	ASTM D7647	>80	4	---	---
Particles >21µm	ASTM D7647	>20	2	---	---
Particles >38µm	ASTM D7647	>4	0	---	---
Particles >71µm	ASTM D7647	>3	0	---	---
Oil Cleanliness	ISO 4406 (c)	>18/16/13	15/14/9	---	---

HEAVY METALS	method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m <0.1	0	---	---
Nickel	ppm	ASTM D5185m <0.1	<1	---	---
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	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. : WC06206046 **Received** : 10 Jun 2024
Lab Number : **06206046** **Tested** : 19 Jun 2024
Unique Number : 11073507 **Diagnosed** : 19 Jun 2024 - Elizabeth Valachovic
Test Package : DF-2 (Additional Tests: Fuel, Screen)

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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)