



FUEL REPORT

Sample Rating Trend

NORMAL



Area
[SC-3456946]
 Machine Id
JCB 3CX 3143560
 Component
Diesel Fuel
 Fluid
{not provided} (--- QTS)



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

The water content is negligible. There is no bacteria or fungus (yeast and/or mold) indicated in the sample. 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		JCBDF04580	---	---
Sample Date	Client Info		14 Aug 2023	---	---
Machine Age	hrs	Client Info	0	---	---
Sample Status			NORMAL	---	---

PHYSICAL PROPERTIES

	method	limit/base	current	history1	history2
Specific Gravity	*ASTM D1298		0.838	---	---
Fuel Color	text	*Visual Screen	Yellow	---	---
ASTM Color	scalar	*ASTM D1500	L3.0	---	---
Visc @ 40°C	cSt	ASTM D445	2.33	---	---
Pensky-Martens Flash Point	°C	*PMCC Calculated	62	---	---

SULFUR CONTENT

	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	20	---	---
Sulfur (UVF)	ppm	ASTM D5453	45	---	---

DISTILLATION

	method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86	170	---	---
5% Distillation Point	°C	ASTM D86	191	---	---
10% Distill Point	°C	ASTM D86	200	---	---
15% Distillation Point	°C	ASTM D86	208	---	---
20% Distill Point	°C	ASTM D86	217	---	---
30% Distill Point	°C	ASTM D86	232	---	---
40% Distill Point	°C	ASTM D86	246	---	---
50% Distill Point	°C	ASTM D86	259	---	---
60% Distill Point	°C	ASTM D86	272	---	---
70% Distill Point	°C	ASTM D86	287	---	---
80% Distill Point	°C	ASTM D86	304	---	---
85% Distillation Point	°C	ASTM D86	313	---	---
90% Distill Point	°C	ASTM D86	324	---	---
95% Distillation Point	°C	ASTM D86	342	---	---
Final Boiling Point	°C	ASTM D86	348	---	---
Distillation Residue	%	ASTM D86	1.4	---	---
Distillation Loss	%	ASTM D86	0.9	---	---

IGNITION QUALITY

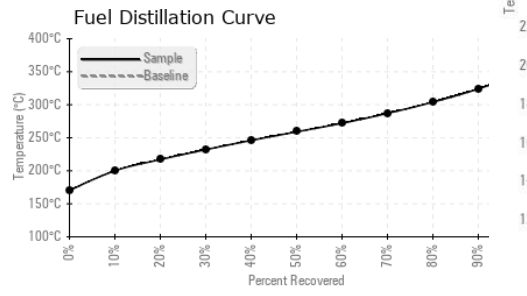
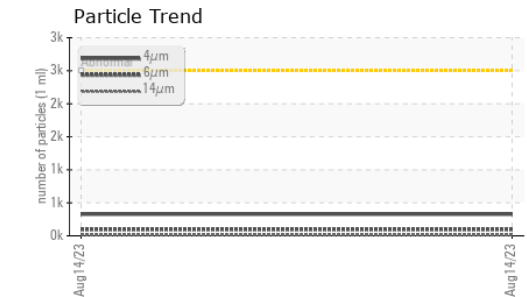
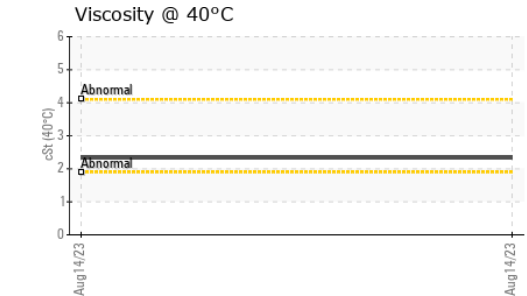
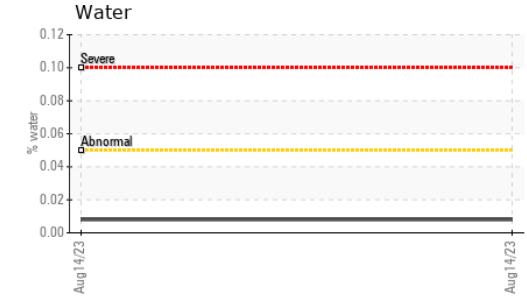
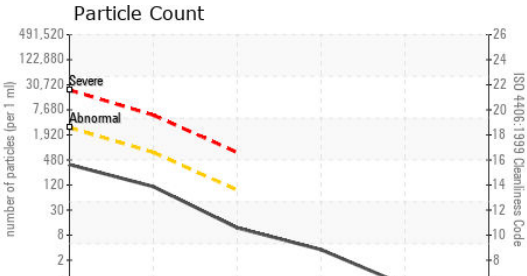
	method	limit/base	current	history1	history2
API Gravity	ASTM D7777		37.4	---	---
Cetane Index	ASTM D4737	<40.0	48.9	---	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	2	---
Sodium	ppm	ASTM D5185m	<0.1	<1	---
Potassium	ppm	ASTM D5185m	<0.1	0	---
Water	%	ASTM D6304	<0.05	0.008	---
ppm Water	ppm	ASTM D6304	<500	80.6	---
% Gasoline	%	*In-House	<0.50	0.0	---
% Biodiesel	%	*In-House	<20.0	2.2	---



FUEL REPORT

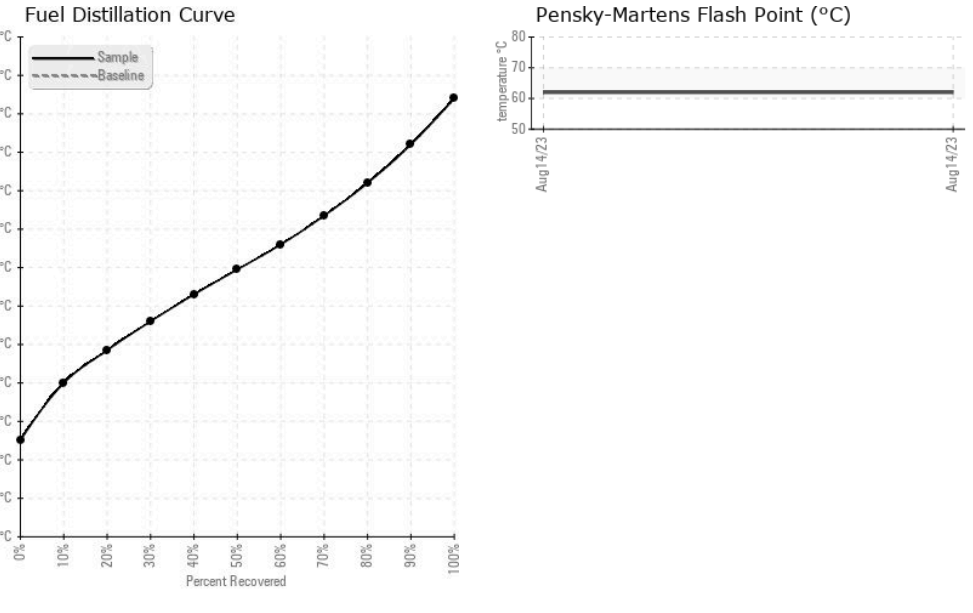


FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	327	---	---
Particles >6µm	ASTM D7647	>640	97	---	---
Particles >14µm	ASTM D7647	>80	10	---	---
Particles >21µm	ASTM D7647	>20	3	---	---
Particles >38µm	ASTM D7647	>4	0	---	---
Particles >71µm	ASTM D7647	>3	0	---	---
Oil Cleanliness	ISO 4406 (c)	>18/16/13	16/14/10	---	---

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	2	---	---
Magnesium	ppm	ASTM D5185m <0.1	2	---	---
Phosphorus	ppm	ASTM D5185m <0.1	3	---	---
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. : JCBDF04580 **Received** : 17 Aug 2023
Lab Number : 05927670 **Diagnosed** : 23 Aug 2023
Unique Number : 10607617 **Diagnostician** : Doug Bogart
Test Package : DF-2 (Additional Tests: Screen)

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 JACKSONVILLE, FL
 US 32207
 Contact: KEVIN PARRISH
 KEVIN.PARRISH@BRIGGSEQUIPMENT.COM
 T:
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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)