



FUEL REPORT

Sample Rating Trend



CONTAMINANT



Machine Id
EC2 BPS
 Component
Diesel Fuel
 Fluid
{not provided} (--- GAL)

DIAGNOSIS

▲ Recommendation

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.

Corrosion

All metal levels are normal indicating no corrosion in the system.

▲ Contaminants

Moderate concentration of visible dirt/debris present in the fuel. There is no bacteria or fungus (yeast and/or mold) present in the sample. The water content is negligible.

Fuel Condition

Sulfur value derived by ASTM D5453 method for ULSD validation.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0798101	---	---
Sample Date	Client Info	22 Mar 2023	---	---
Machine Age	hrs Client Info	0	---	---
Sample Status		ABNORMAL	---	---

PHYSICAL PROPERTIES

method	limit/base	current	history1	history2
Specific Gravity	*ASTM D1298	0.843	---	---
Fuel Color	text *Visual Screen	Red	---	---
ASTM Color	scalar *ASTM D1500	L4.0	---	---
Visc @ 40°C	cSt ASTM D445	2.51	---	---
Pensky-Martens Flash Point	°C *PMCC Calculated	60	---	---

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	166	---	---
5% Distillation Point	°C ASTM D86	190	---	---
10% Distill Point	°C ASTM D86	201	---	---
15% Distillation Point	°C ASTM D86	210	---	---
20% Distill Point	°C ASTM D86	217	---	---
30% Distill Point	°C ASTM D86	231	---	---
40% Distill Point	°C ASTM D86	246	---	---
50% Distill Point	°C ASTM D86	260	---	---
60% Distill Point	°C ASTM D86	274	---	---
70% Distill Point	°C ASTM D86	289	---	---
80% Distill Point	°C ASTM D86	305	---	---
85% Distillation Point	°C ASTM D86	315	---	---
90% Distill Point	°C ASTM D86	326	---	---
95% Distillation Point	°C ASTM D86	344	---	---
Final Boiling Point	°C ASTM D86	347	---	---
Distillation Residue	% ASTM D86	1.4	---	---
Distillation Loss	% ASTM D86	1.0	---	---

IGNITION QUALITY

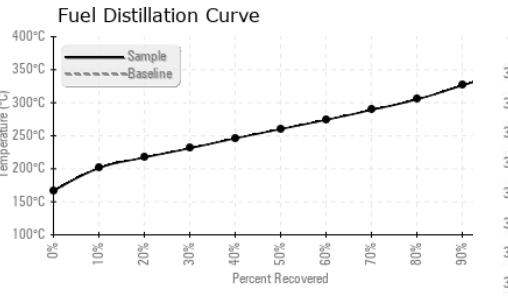
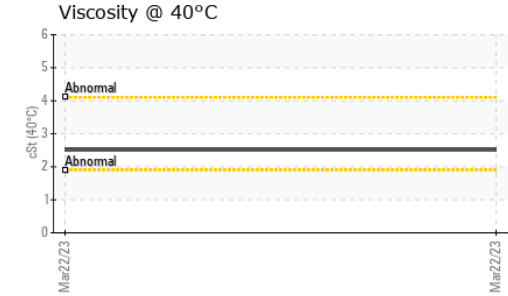
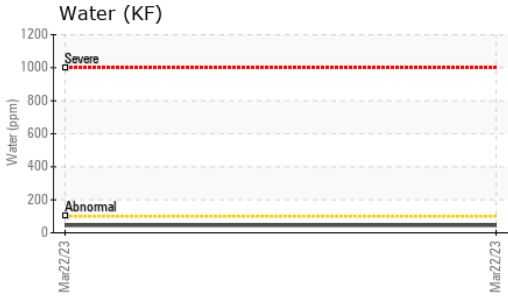
method	limit/base	current	history1	history2
API Gravity	ASTM D7777	36.4	---	---
Cetane Index	ASTM D4737 <40.0	47.2	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m <1.0	0	---	---
Sodium	ppm ASTM D5185m <0.1	0	---	---
Potassium	ppm ASTM D5185m <0.1	0	---	---
Water	% ASTM D6304 <0.05	0.004	---	---
ppm Water	ppm ASTM D6304 <500	45.2	---	---
% Gasoline	% *In-House <0.50	0.0	---	---
% Biodiesel	% *In-House <20.0	0.0	---	---



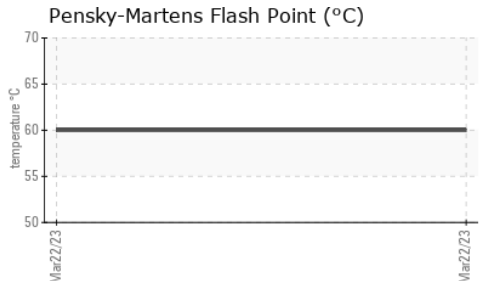
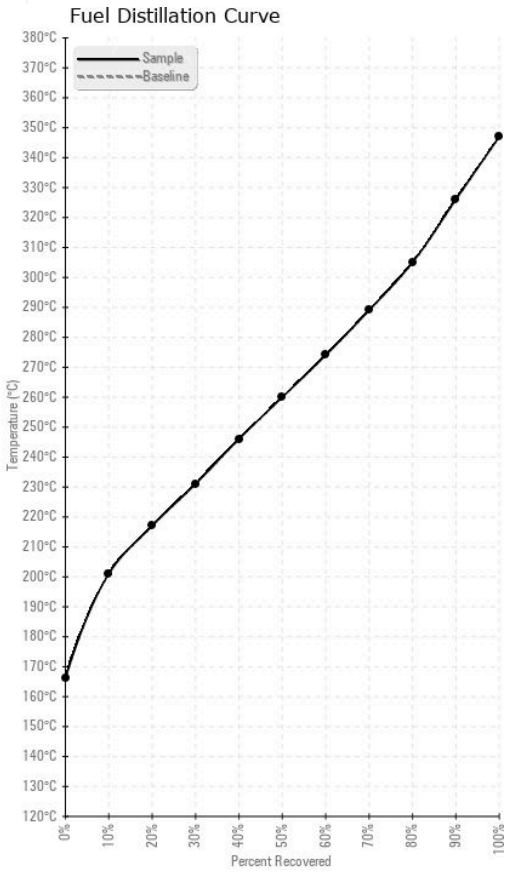
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HEAVY METALS		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m	<0.1	0	---	---
Nickel	ppm	ASTM D5185m	<0.1	0	---	---
Lead	ppm	ASTM D5185m	<0.1	0	---	---
Vanadium	ppm	ASTM D5185m	<0.1	0	---	---
Iron	ppm	ASTM D5185m	<0.1	0	---	---
Calcium	ppm	ASTM D5185m	<0.1	0	---	---
Magnesium	ppm	ASTM D5185m	<0.1	0	---	---
Phosphorus	ppm	ASTM D5185m	<0.1	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. : WC0798101 **Received** : 28 Apr 2023
Lab Number : 05833387 **Diagnosed** : 12 May 2023
Unique Number : 10446880 **Diagnostician** : Doug Bogart
Test Package : DF-2 (Additional Tests: Screen)

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 US 27546
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Certificate L2367
 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)