



FUEL REPORT

Sample Rating Trend



VISUAL METAL



Area
[51095]
 Machine Id
C-6 BPD
 Component
Diesel Fuel
 Fluid
 DIESEL FUEL No. 2 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We advise that you inspect for the source(s) of rust.

Corrosion

Moderate concentration of visible metal present as rust.

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			WC0795894	---	---
Sample Date	Client Info			16 Mar 2023	---	---
Machine Age	hrs	Client Info		0	---	---
Sample Status				ABNORMAL	---	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		*ASTM D1298		0.847	---	---
Fuel Color	text	*Visual Screen		Yellow	---	---
ASTM Color	scalar	*ASTM D1500		L2.0	---	---
Visc @ 40°C	cSt	ASTM D445	4.1	2.67	---	---
Pensky-Martens Flash Point	°C	*PMCC Calculated		54	---	---
Cloud Point	°C	ASTM D5771		-12	---	---
Pour Point	°C	ASTM D5950		-36	---	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		0	---	---
Sulfur (UVF)	ppm	ASTM D5453		24	---	---

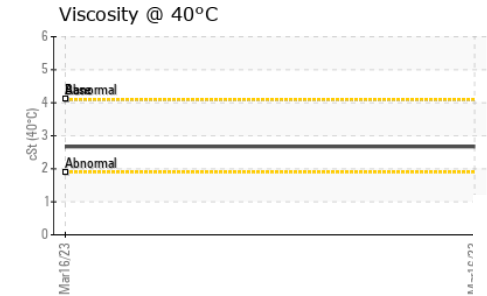
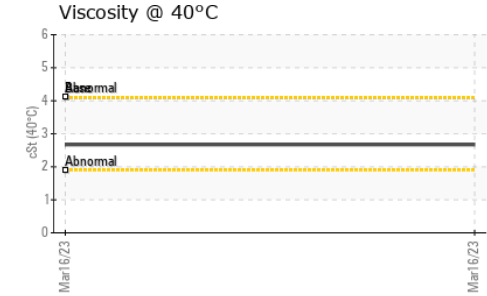
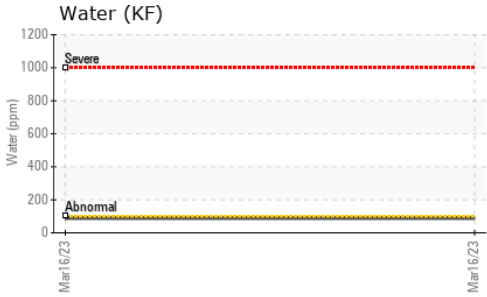
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86		146	---	---
5% Distillation Point	°C	ASTM D86		186	---	---
10% Distill Point	°C	ASTM D86		197	---	---
15% Distillation Point	°C	ASTM D86		207	---	---
20% Distill Point	°C	ASTM D86		215	---	---
30% Distill Point	°C	ASTM D86		232	---	---
40% Distill Point	°C	ASTM D86		247	---	---
50% Distill Point	°C	ASTM D86		263	---	---
60% Distill Point	°C	ASTM D86		277	---	---
70% Distill Point	°C	ASTM D86		293	---	---
80% Distill Point	°C	ASTM D86		310	---	---
85% Distillation Point	°C	ASTM D86		319	---	---
90% Distill Point	°C	ASTM D86		330	---	---
95% Distillation Point	°C	ASTM D86		350	---	---
Final Boiling Point	°C	ASTM D86		354	---	---
Distillation Residue	%	ASTM D86		1.4	---	---
Distillation Loss	%	ASTM D86		0.8	---	---

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D7777		35.6	---	---
Cetane Index		ASTM D4737	<40.0	46.0	---	---

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	0.008	---	---
ppm Water	ppm	ASTM D6304	<500	88.5	---	---
% Gasoline	%	*In-House	<0.50	0.0	---	---
% Biodiesel	%	*In-House	<20.0	1.6	---	---



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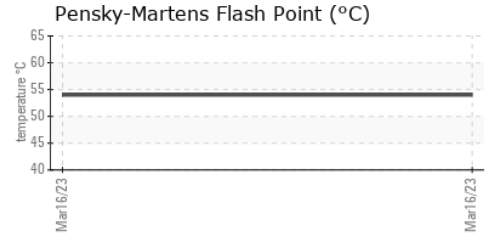
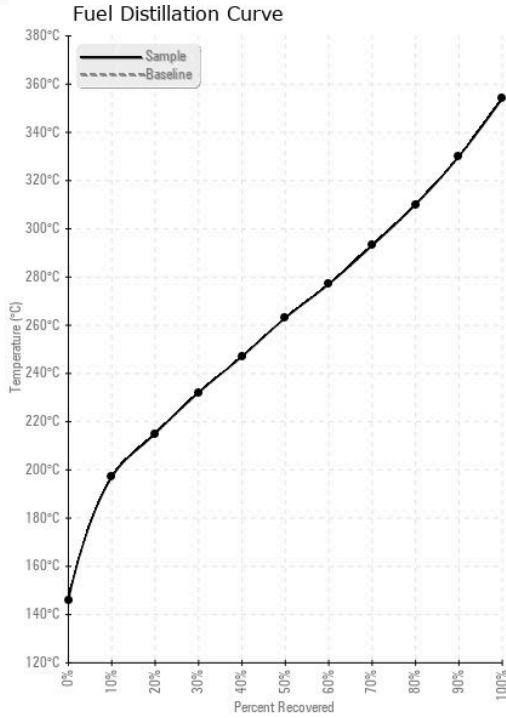


MICROBIAL	method	limit/base	current	history1	history2
Bacteria	CFU/ml WC-Method	>=100000	0	---	---
Yeast	CFU/ml WC-Method	>=100000	0	---	---
Mold	Colonies WC-Method	MODER	---	---	---

HEAVY METALS	method	limit/base	current	history1	history2
Aluminum	ppm ASTM D5185m	<0.1	6	---	---
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	<1	---	---
Calcium	ppm ASTM D5185m	<0.1	0	---	---
Magnesium	ppm ASTM D5185m	<0.1	2	---	---
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. : WC0795894 **Received** : 09 May 2023
Lab Number : 05842847 **Tested** : 01 Jun 2023
Unique Number : 10466954 **Diagnosed** : 01 Jun 2023 - Doug Bogart
Test Package : DF-3 (Additional Tests: BACTERIA, 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)