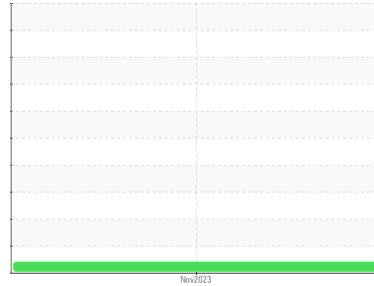




FUEL REPORT

Sample Rating Trend



VIS DEBRIS



Machine Id
GOOG-AST-CO1

Component
Diesel Fuel
Fluid
DIESEL FUEL No. 2 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you filter this fluid before use. All other 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

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

Fuel Condition

Sulfur value derived by ASTM D5453 method for ULSD validation. Sulfur level is acceptable for ULSD specification.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			WC0869475	---	---
Sample Date	Client Info			16 Nov 2023	---	---
Machine Age	hrs	Client Info		0	---	---
Sample Status				ABNORMAL	---	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		*ASTM D1298		0.844	---	---
Fuel Color	text	*Visual Screen		Red	---	---
ASTM Color	scalar	*ASTM D1500		L4.5	---	---
Visc @ 40°C	cSt	ASTM D445	4.1	2.49	---	---
Pensky-Martens Flash Point	°C	*PMCC Calculated		55	---	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		0	---	---
Sulfur (UVF)	ppm	ASTM D5453		9	---	---

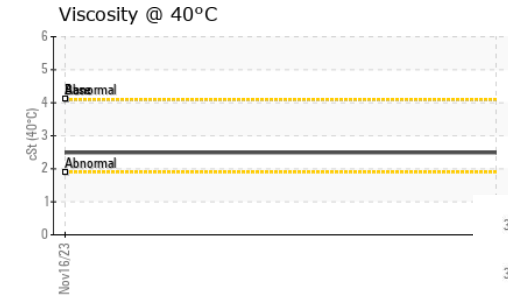
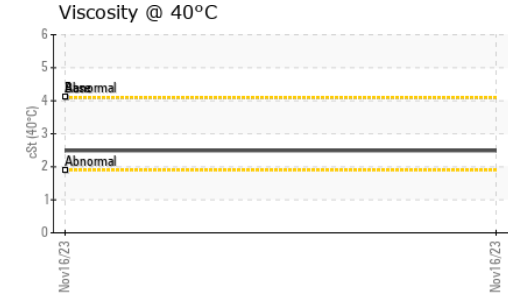
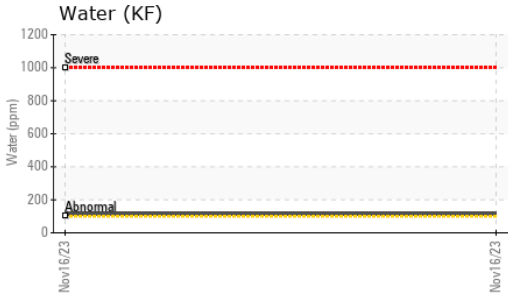
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86		153	---	---
5% Distillation Point	°C	ASTM D86		186	---	---
10% Distill Point	°C	ASTM D86		201	---	---
15% Distillation Point	°C	ASTM D86		210	---	---
20% Distill Point	°C	ASTM D86		218	---	---
30% Distill Point	°C	ASTM D86		233	---	---
40% Distill Point	°C	ASTM D86		247	---	---
50% Distill Point	°C	ASTM D86		259	---	---
60% Distill Point	°C	ASTM D86		273	---	---
70% Distill Point	°C	ASTM D86		287	---	---
80% Distill Point	°C	ASTM D86		302	---	---
85% Distillation Point	°C	ASTM D86		312	---	---
90% Distill Point	°C	ASTM D86		323	---	---
95% Distillation Point	°C	ASTM D86		342	---	---
Final Boiling Point	°C	ASTM D86		350	---	---
Distillation Residue	%	ASTM D86		1.4	---	---
Distillation Loss	%	ASTM D86		0.6	---	---

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D7777		36.2	---	---
Cetane Index		ASTM D4737	<40.0	46.9	---	---

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	0	---	---
Water	%	ASTM D6304	<0.05	0.011	---	---
ppm Water	ppm	ASTM D6304	<500	113	---	---
% Gasoline	%	*In-House	<0.50	0.0	---	---
% Biodiesel	%	*In-House	<20.0	0.0	---	---



FUEL REPORT

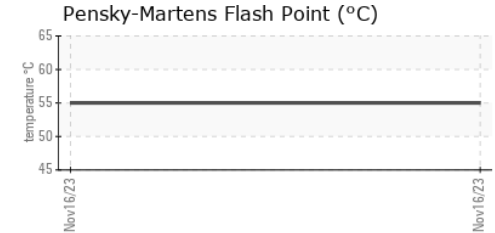
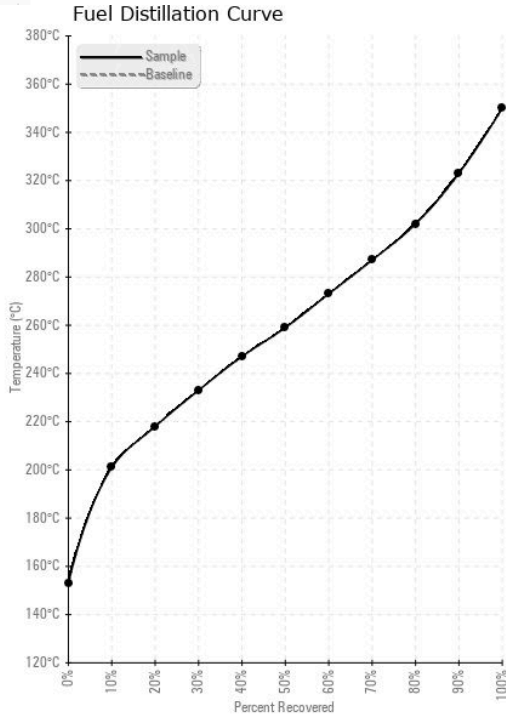


MICROBIAL	method	limit/base	current	history1	history2
Bacteria	CFU/ml WC-Method	>=100000	0	---	---
Yeast	CFU/ml WC-Method	>=100000	0	---	---
Mold	Colonies WC-Method	MODER	---	---	---

HEAVY METALS	method	limit/base	current	history1	history2
Aluminum	ppm ASTM D5185m	<0.1	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	1	---	---
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. : WC0869475 **Received** : 22 Nov 2023
Lab Number : 06015566 **Diagnosed** : 29 Nov 2023
Unique Number : 10754710 **Diagnostician** : Doug Bogart
Test Package : DF-2 (Additional Tests: BACTERIA, Screen)

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 1076 CLASSIC RD
 APEX, NC
 US 27539
 Contact: JOHN MORREALE
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 T: (919)629-8180
 F: (919)303-7399

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)