

FUEL REPORT

Area SAPP BROS PETROLEUM Machine Id CATERPILLAR Fidelity DH2 A3/4 Component

Diesel Fuel

Ma/223

Sample Rating Trend



NORMAL

{not provided} (--- GAL)

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, Yeast and/or Fungus indicated in the sample. There is no indication of any contamination in the fuel.

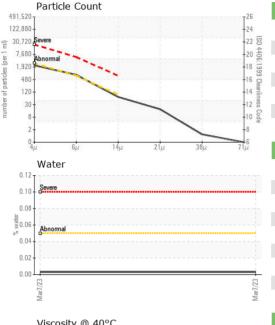
Fuel Condition

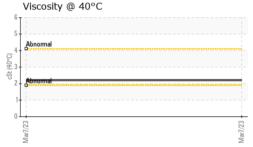
Sulfur value derived by ASTM D4294 method for ULSD validation. Sulfur level is acceptable for ULSD specification.

SAMPLE INFORM	IATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		SBP0004160		
Sample Date		Client Info		07 Mar 2023		
Machine Age	hrs	Client Info		0		
Sample Status				NORMAL		
PHYSICAL PROP	ERTIES	method	limit/base	current	history 1	history 2
Specific Gravity		*ASTM D1298		0.833		
Fuel Color	text	*Visual Screen		Red		
ASTM Color	scalar	*ASTM D1500		L4.0		
Visc @ 40°C	cSt	ASTM D445		2.2		
Pensky-Martens Flash Point	°C	*PMCC Calculated		61		
Cloud Point	°C	ASTM D5771		-15		
Pour Point	°C	ASTM D5950		-54		
SULFUR CONTER	NT	method	limit/base	current	history 1	history 2
Sulfur	ppm	ASTM D5185m		0		
Sulfur (UVF)	ppm	ASTM D5453		9		
DISTILLATION		method	limit/base	current	history 1	history 2
Initial Boiling Point	°C	ASTM D86		168		
5% Distillation Point	°C	ASTM D86		188		
10% Distill Point	°C	ASTM D86		195		
15% Distillation Point	°C	ASTM D86		201		
20% Distill Point	°C	ASTM D86		206		
30% Distill Point	°C	ASTM D86		217		
40% Distill Point	°C	ASTM D86		231		
50% Distill Point	°C	ASTM D86		244		
60% Distill Point	°C	ASTM D86		260		
70% Distill Point	°C	ASTM D86		277		
80% Distill Point	°C	ASTM D86		296		
85% Distillation Point	°C	ASTM D86		307		
90% Distill Point	°C	ASTM D86		321		
95% Distillation Point	°C	ASTM D86		340		
Final Boiling Point	°C	ASTM D86		349		
Distillation Residue	%	ASTM D86		1.4		
Distillation Loss	%	ASTM D86		0.5		
IGNITION QUALIT	ΓY	method	limit/base	current	history 1	history 2
API Gravity		ASTM D7777		38.4		
Cetane Index		ASTM D4737	<40.0	47.7		
CONTAMINANTS		method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	<1.0	0		
Sodium	ppm	ASTM D5185m	<0.1	0		
Potassium	ppm	ASTM D5185m	<0.1	2		
Water	%	ASTM D6304	<0.05	0.003		
ppm Water	ppm	ASTM D6304	<500	32.9		
% Gasoline	%	*In-House	<0.50	0.0		
% Biodiesel	%	*In-House	<20.0	0.0		



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400°

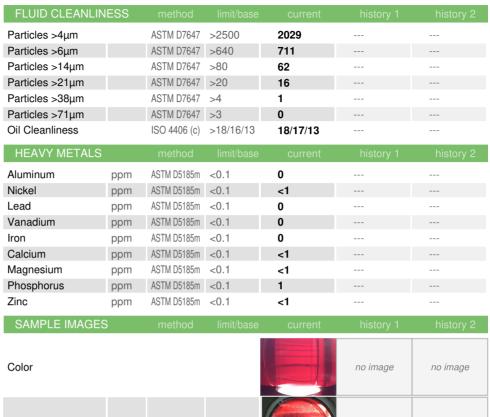
350° <u>ନ</u>ି 300°C

250°0

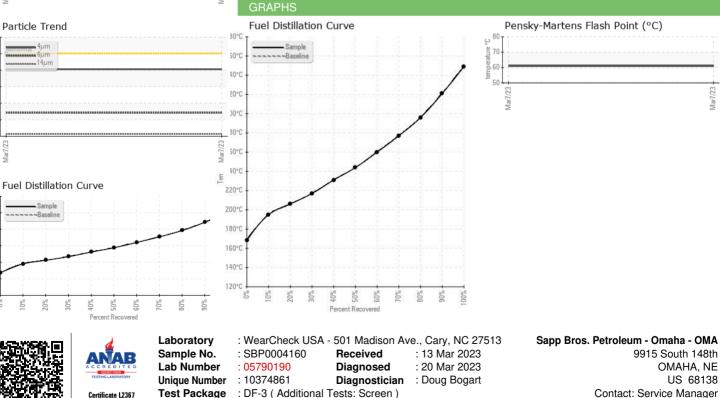
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150°

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Bottom



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)

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Submitted By: Josh Broz Page 2 of 2

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