



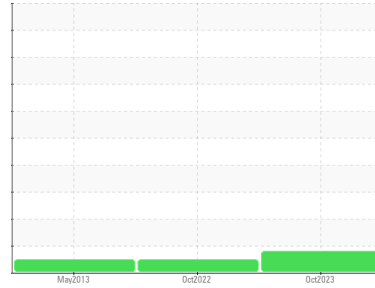
FUEL REPORT

Sample Rating Trend

WEAR

Area
E8
Machine Id
CUMMINS E8

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



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

Fuel content 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. Sulfur level is acceptable for ULSD specification.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			WC0654264	WC0697239	WC12225335
Sample Date	Client Info			27 Oct 2023	29 Oct 2022	02 May 2013
Machine Age	hrs	Client Info		3718	0	0
Sample Status				ATTENTION	NORMAL	NORMAL

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
ASTM Color	scalar	*ASTM D1500		L3.0	L1.5	---
Visc @ 40°C	cSt	ASTM D445	3.0	1.29	1.32	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	0	0	3822
Sulfur (UVF)	ppm	ASTM D5453		3	5	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	0	0	3
Sodium	ppm	ASTM D5185m	<0.1	0	0	2
Potassium	ppm	ASTM D5185m	<0.1	1	0	5
Water	%	ASTM D6304	<0.05	0.002	0.003	---
ppm Water	ppm	ASTM D6304	<500	24.2	34.0	---
% Gasoline	%	*In-House	<0.50	0.0	0.0	---
% Biodiesel	%	*In-House	<20.0	0.0	0.0	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	600	891	---
Particles >6µm		ASTM D7647	>640	181	309	---
Particles >14µm		ASTM D7647	>80	16	28	---
Particles >21µm		ASTM D7647	>20	4	4	---
Particles >38µm		ASTM D7647	>4	0	0	---
Particles >71µm		ASTM D7647	>3	0	0	---
Oil Cleanliness		ISO 4406 (c)	>18/16/13	16/15/11	17/15/12	---

HEAVY METALS		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m	<0.1	<1	0	1
Nickel	ppm	ASTM D5185m	<0.1	0	0	<1
Lead	ppm	ASTM D5185m	<0.1	0	0	0
Vanadium	ppm	ASTM D5185m	<0.1	0	0	0
Iron	ppm	ASTM D5185m	<0.1	0	0	2
Calcium	ppm	ASTM D5185m	<0.1	<1	0	1989
Magnesium	ppm	ASTM D5185m	<0.1	0	<1	3
Phosphorus	ppm	ASTM D5185m	<0.1	0	0	992
Zinc	ppm	ASTM D5185m	<0.1	0	0	1137

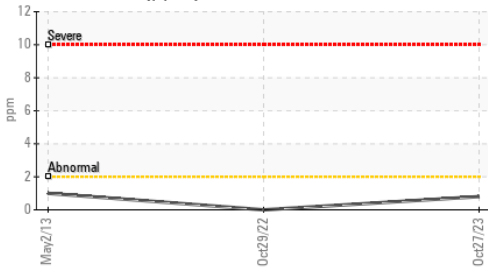
SAMPLE IMAGES

Color	method	limit/base	current	history1	history2
Color					<i>no image</i>
Bottom					<i>no image</i>



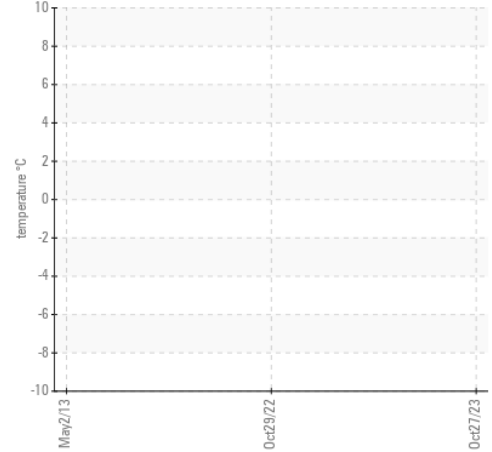
FUEL REPORT

▲ Aluminum (ppm)

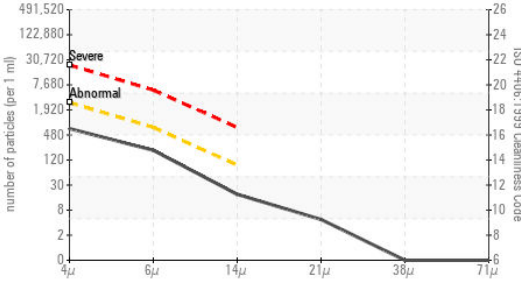


GRAPHS

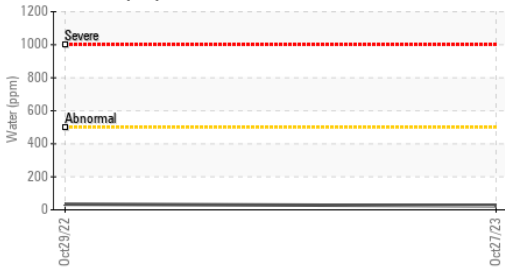
Pensky-Martens Flash Point (°C)



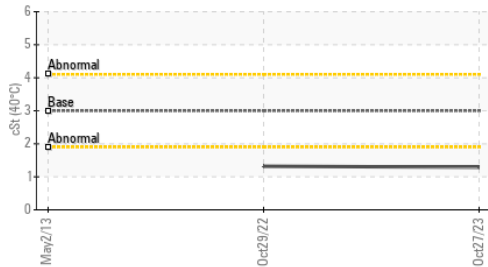
Particle Count



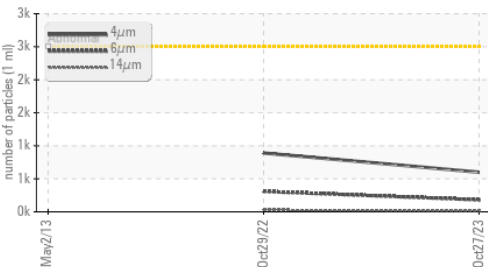
Water (KF)



Viscosity @ 40°C



Particle Trend



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0654264 **Received** : 01 Nov 2023
Lab Number : 05996443 **Diagnosed** : 15 Nov 2023
Unique Number : 10724803 **Diagnostician** : Doug Bogart
Test Package : DF-5 (Additional Tests: Screen)

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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