



FUEL REPORT

CORROSION	NORMAL
CONTAMINANTS	NORMAL
FUEL CONDITION	NORMAL

Area
[PMOAS3121499]
 Machine Id
14377840100 (S/N 2116602)

Component
Diesel Fuel
 Fluid
No.2 DIESEL FUEL (LOW-SULPHUR) (350 GAL)

RECOMMENDATION

All laboratory tests indicate that this sample meets specifications for No.2 ultra-low-sulfur diesel fuel.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DC0033999	DC0031445	WCDF02490
Sample Date		Client Info		21 Feb 2024	11 Oct 2023	09 Nov 2020
Machine Age	hrs	Client Info		564	0	372
Sample Status				NORMAL	NORMAL	NORMAL

CORROSION

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

Aluminum	ppm	ASTM D5185m	<0.1	0	0	<1
Nickel	ppm	ASTM D5185m	<0.1	0	0	0
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	0

CONTAMINANTS

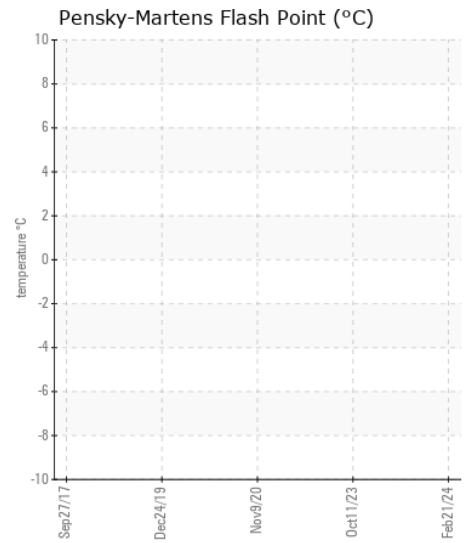
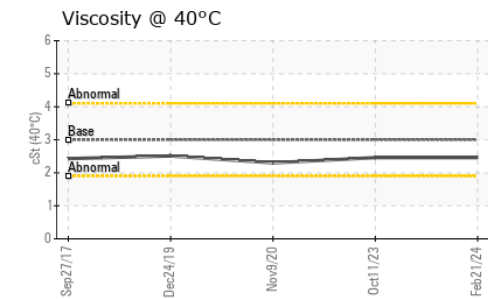
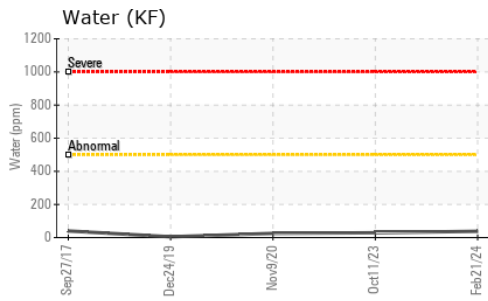
The water content is negligible. There is no bacteria or fungus (yeast and/or mold) indicated in the sample. There is no indication of any contamination in the fuel.

Silicon	ppm	ASTM D5185m	<1.0	<1	0	<1
Sodium	ppm	ASTM D5185m	<0.1	<1	<1	<1
Potassium	ppm	ASTM D5185m	<0.1	<1	0	0
Water	%	ASTM D6304	<0.05	0.003	0.003	0.003
ppm Water	ppm	ASTM D6304	<500	38	28.9	25.4
% Gasoline	%	*In-House	<0.50	0.0	0.0	0.0
% Biodiesel	%	*In-House	<20.0	0.0	0.0	0.0
Calcium	ppm	ASTM D5185m	<0.1	2	0	<1
Magnesium	ppm	ASTM D5185m	<0.1	0	0	0
Phosphorus	ppm	ASTM D5185m	<0.1	<1	0	2
Zinc	ppm	ASTM D5185m	<0.1	0	0	4

FUEL CONDITION

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

ASTM Color	scalar	*ASTM D1500		L4.5	L4.5	L5.5
Visc @ 40°C	cSt	ASTM D445	3.0	2.46	2.46	2.3
Sulfur	ppm	ASTM D5185m	250	3	197	9
Sulfur (UVF)	ppm	ASTM D5453		10	11	10
API Gravity		ASTM D7777	37.7	36.9	36.7	38.1



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DC0033999 **Received** : 22 Feb 2024
Lab Number : 06098061 **Tested** : 27 Feb 2024
Unique Number : 10896291 **Diagnosed** : 27 Feb 2024 - Doug Bogart
Test Package : DF-5 (Additional Tests: API, Cetane, 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)