



FUEL REPORT

CORROSION	NORMAL
CONTAMINANTS	NORMAL
FUEL CONDITION	NORMAL

Area
[PMOAS3121499]
 Machine Id
11928740100 (S/N 2106025)
 Component
Diesel Fuel
 Fluid
No.2 DIESEL FUEL (LOW-SULPHUR) (--- 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		DC0029108	DC0031446	WCDF02902
Sample Date		Client Info		18 Jan 2024	11 Oct 2023	09 Nov 2020
Machine Age	hrs	Client Info		615	0	433
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	<1
Vanadium	ppm	ASTM D5185m	<0.1	0	0	0
Iron	ppm	ASTM D5185m	<0.1	0	0	0

CONTAMINANTS

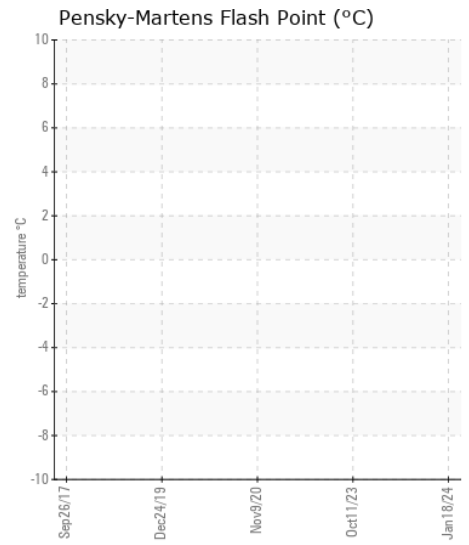
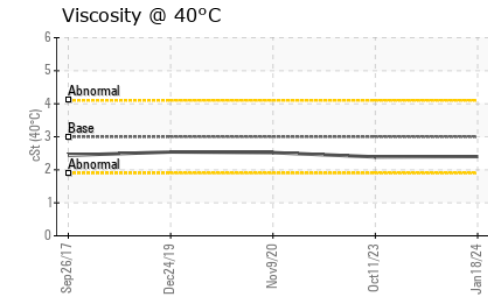
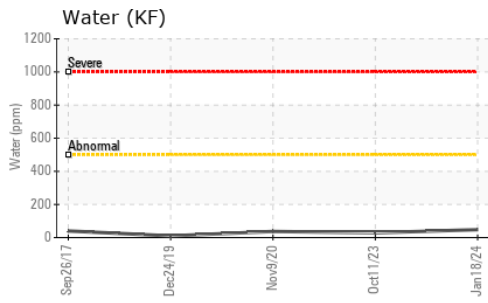
The water content is negligible. There is no bacteria or fungus (yeast and/or mold) indicated in the sample. There is no indication of any contamination in the fuel.

Silicon	ppm	ASTM D5185m	<1.0	0	0	<1
Sodium	ppm	ASTM D5185m	<0.1	<1	<1	<1
Potassium	ppm	ASTM D5185m	<0.1	0	0	0
Water	%	ASTM D6304	<0.05	0.004	0.003	0.003
ppm Water	ppm	ASTM D6304	<500	48	28.6	36.9
% 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	0	0	0
Magnesium	ppm	ASTM D5185m	<0.1	0	0	0
Phosphorus	ppm	ASTM D5185m	<0.1	0	0	0
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	L4.5
Visc @ 40°C	cSt	ASTM D445	3.0	2.4	2.39	2.52
Sulfur	ppm	ASTM D5185m	250	0	0	20
Sulfur (UVF)	ppm	ASTM D5453		9	11	22
API Gravity		ASTM D7777	37.7	37.0	37.0	36.3



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DC0029108
Lab Number : 06103438
Unique Number : 10901668
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)