



FUEL REPORT

CORROSION	NORMAL
CONTAMINANTS	NORMAL
FUEL CONDITION	NORMAL

Area

[PMOAS3372426]

Machine Id

ELMWOOD (S/N 3001702964)

Component

Diesel Fuel

Fluid

No.2 DIESEL FUEL (ULTRALOW 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		DC0029115	DC0029076	DC0019534
Sample Date		Client Info		09 Apr 2024	03 Apr 2023	25 Apr 2022
Machine Age	hrs	Client Info		0	116	94
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	0
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

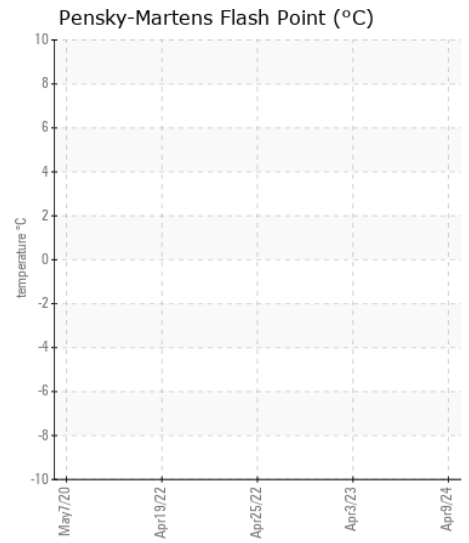
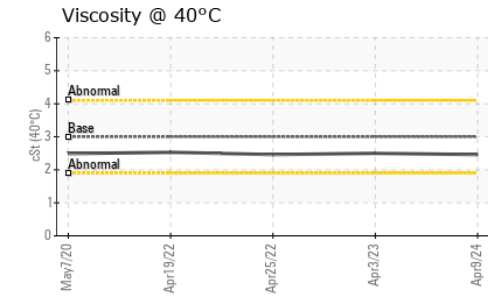
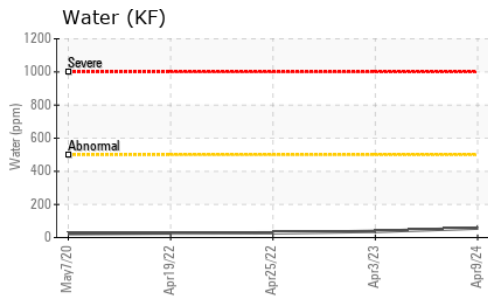
The water content is negligible. There is no Bacteria, Yeast and/or Fungus indicated in the sample. There is no indication of any contamination in the fuel.

Silicon	ppm	ASTM D5185m	<1.0	0	0	0
Sodium	ppm	ASTM D5185m	<0.1	0	0	0
Potassium	ppm	ASTM D5185m	<0.1	0	0	0
Water	%	ASTM D6304	<0.05	0.005	0.003	0.003
ppm Water	ppm	ASTM D6304	<500	57	37.5	28.4
Particles >4µm		ASTM D7647	>2500	---	3112	223
Particles >6µm		ASTM D7647	>640	---	1420	90
Particles >14µm		ASTM D7647	>80	---	186	12
Particles >21µm		ASTM D7647	>20	---	41	3
Particles >38µm		ASTM D7647	>4	---	6	0
Particles >71µm		ASTM D7647	>3	---	0	0
Oil Cleanliness		ISO 4406 (c)	>18/16/13	---	19/18/15	15/14/11
% 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	2
Zinc	ppm	ASTM D5185m	<0.1	0	0	0

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	L3.5
Visc @ 40°C	cSt	ASTM D445	3.0	2.46	2.5	2.46
Sulfur	ppm	ASTM D5185m	10	0	0	11
Sulfur (UVF)	ppm	ASTM D5453		11	9	10
API Gravity		ASTM D7777	37.7	37.1	37.1	36.7



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DC0029115 **Received** : 24 Apr 2024
Lab Number : 06159982 **Tested** : 06 May 2024
Unique Number : 10995405 **Diagnosed** : 06 May 2024 - Doug Bogart
Test Package : DF-5 (Additional Tests: API, Cetane, Fuel, PrtCount, 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)