



# FUEL REPORT

CORROSION	<b>NORMAL</b>
CONTAMINANTS	<b>NORMAL</b>
FUEL CONDITION	<b>NORMAL</b>

Area

[PMOAS2771878]

Machine Id

SD500 3004006682

Component

Diesel Fuel

Fluid

No.2 DIESEL FUEL (ULTRALOW SULPHUR) (--- QTS)

## 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		<b>DC0035911</b>	DC0019311	DC0019288
Sample Date		Client Info		<b>24 Apr 2024</b>	03 Apr 2023	10 Feb 2022
Machine Age	hrs	Client Info		<b>164</b>	143	101
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## CORROSION

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

Aluminum	ppm	ASTM D5185m	<0.1	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m	<0.1	<b>0</b>	0	0
Lead	ppm	ASTM D5185m	<0.1	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m	<0.1	<b>0</b>	0	0
Iron	ppm	ASTM D5185m	<0.1	<b>0</b>	0	0

## CONTAMINANTS

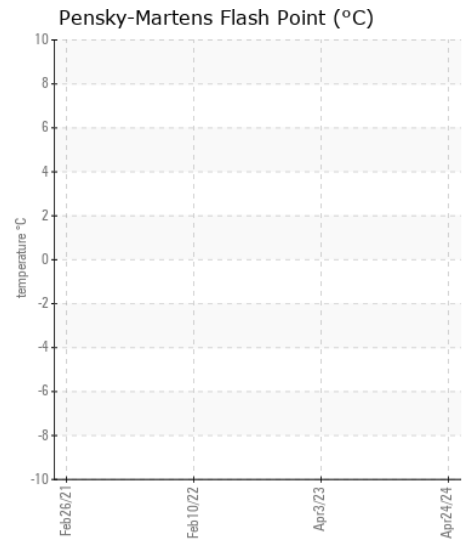
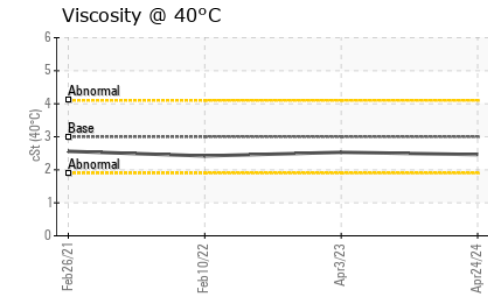
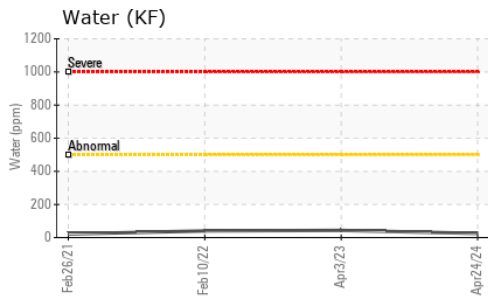
The water content is negligible. There is no Bacteria, Yeast and/or Fungus indicated in the sample. There is no indication of any contamination in the fuel.

Silicon	ppm	ASTM D5185m	<1.0	<b>&lt;1</b>	0	0
Sodium	ppm	ASTM D5185m	<0.1	<b>&lt;1</b>	0	0
Potassium	ppm	ASTM D5185m	<0.1	<b>0</b>	0	0
Water	%	ASTM D6304	<0.05	<b>0.002</b>	0.004	0.004
ppm Water	ppm	ASTM D6304	<500	<b>25</b>	43.3	40.4
Particles >4µm		ASTM D7647	>2500	<b>---</b>	153	5577
Particles >6µm		ASTM D7647	>640	<b>---</b>	46	1118
Particles >14µm		ASTM D7647	>80	<b>---</b>	8	69
Particles >21µm		ASTM D7647	>20	<b>---</b>	2	14
Particles >38µm		ASTM D7647	>4	<b>---</b>	0	0
Particles >71µm		ASTM D7647	>3	<b>---</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>18/16/13	<b>---</b>	14/13/10	20/17/13
% Gasoline	%	*In-House	<0.50	<b>0.0</b>	0.0	0.0
% Biodiesel	%	*In-House	<20.0	<b>2.2</b>	2.3	2.3
Calcium	ppm	ASTM D5185m	<0.1	<b>&lt;1</b>	0	1
Magnesium	ppm	ASTM D5185m	<0.1	<b>0</b>	0	0
Phosphorus	ppm	ASTM D5185m	<0.1	<b>&lt;1</b>	0	2
Zinc	ppm	ASTM D5185m	<0.1	<b>&lt;1</b>	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		<b>L4.5</b>	L4.5	L5.5
Visc @ 40°C	cSt	ASTM D445	3.0	<b>2.46</b>	2.53	2.42
Sulfur	ppm	ASTM D5185m	10	<b>0</b>	2	10
Sulfur (UVF)	ppm	ASTM D5453		<b>12</b>	12	13
API Gravity		ASTM D7777	37.7	<b>36.1</b>	36.1	36.5



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : DC0035911 **Received** : 10 May 2024  
**Lab Number** : 06175997 **Tested** : 04 Jun 2024  
**Unique Number** : 11022050 **Diagnosed** : 04 Jun 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)