



FUEL REPORT

CORROSION	NORMAL
CONTAMINANTS	ABNORMAL
FUEL CONDITION	NORMAL

Area

[PMOAS3372430]

Machine Id

SD300 FREDERICK DR (S/N 2103231)

Component

Diesel Fuel

Fluid

No.2 DIESEL FUEL (LOW-SULPHUR) (1000 GAL)

RECOMMENDATION

We advise that you follow the water drain-off procedure for this component.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DC0034674	DC0029069	DC0019545
Sample Date		Client Info		19 Apr 2024	04 Apr 2023	19 Apr 2022
Machine Age	hrs	Client Info		603	561	593
Sample Status				ABNORMAL	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

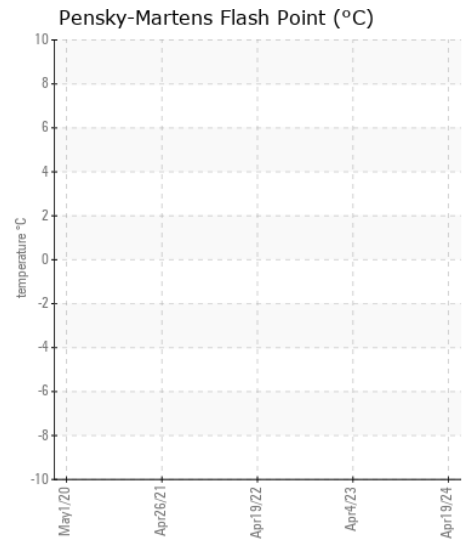
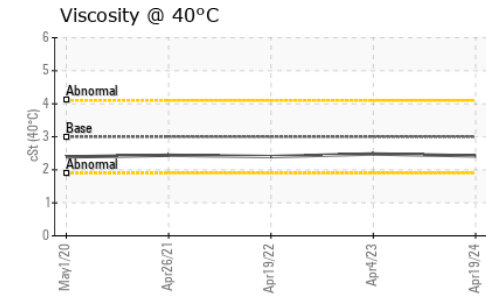
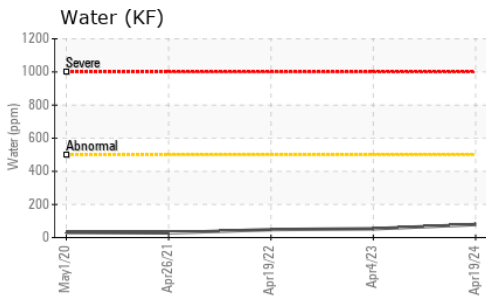
Free water present. There is no bacteria or fungus (yeast and/or mold) present in the sample.

Silicon	ppm	ASTM D5185m	<1.0	0	0	0
Sodium	ppm	ASTM D5185m	<0.1	0	0	<1
Potassium	ppm	ASTM D5185m	<0.1	0	0	0
Water	%	ASTM D6304	<0.05	0.007	0.005	0.004
ppm Water	ppm	ASTM D6304	<500	79	53.2	48.2
Particles >4µm		ASTM D7647	>2500	---	7461	5126
Particles >6µm		ASTM D7647	>640	---	1625	1650
Particles >14µm		ASTM D7647	>80	---	106	162
Particles >21µm		ASTM D7647	>20	---	29	27
Particles >38µm		ASTM D7647	>4	---	1	2
Particles >71µm		ASTM D7647	>3	---	0	0
Oil Cleanliness		ISO 4406 (c)	>18/16/13	---	20/18/14	20/18/15
% Gasoline	%	*In-House	<0.50	0.0	0.0	0.0
% Biodiesel	%	*In-House	<20.0	0.0	0.0	0.0
Bacteria	CFU/ml	WC-Method	>=100000	0	---	---
Yeast	CFU/ml	WC-Method	>=100000	0	---	---
Mold	Colonies	WC-Method	MODER	---	---	---
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	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		L5.5	L4.5	L4.5
Visc @ 40°C	cSt	ASTM D445	3.0	2.42	2.48	2.4
Sulfur	ppm	ASTM D5185m	250	0	5	3
Sulfur (UVF)	ppm	ASTM D5453		15	14	13
API Gravity		ASTM D7777	37.7	36.4	36.4	36.2



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : DC0034674

Lab Number : 06159975

Unique Number : 10995398

Test Package : DF-5 (Additional Tests: API, Bacteria, Cetane, Fuel, PrtCount, Screen)

Received : 24 Apr 2024

Tested : 06 May 2024

Diagnosed : 06 May 2024 - Doug Bogart

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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)