



FUEL REPORT

CORROSION	NORMAL
CONTAMINANTS	NORMAL
FUEL CONDITION	NORMAL

Area
[PMIAS3286856]
 Machine Id
KATOLIGHT SED300FPJ4 108332-0305
 Component
Diesel Fuel
 Fluid
No.2 DIESEL FUEL (HIGH-SULPHUR) (10 GAL)

RECOMMENDATION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DC0034685	DC0025180	DC0014834
Sample Date		Client Info		23 Feb 2024	21 Mar 2023	12 Jan 2022
Machine Age	hrs	Client Info		340	331	323
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

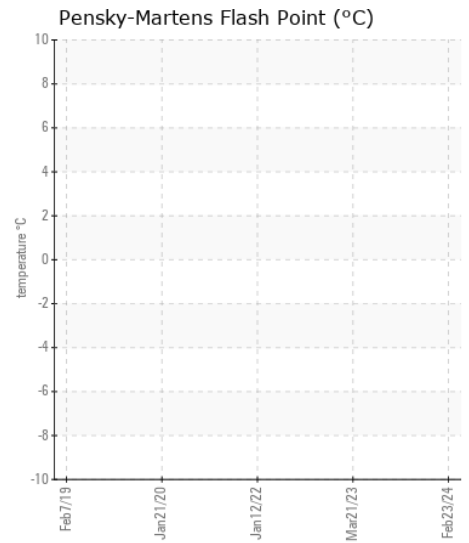
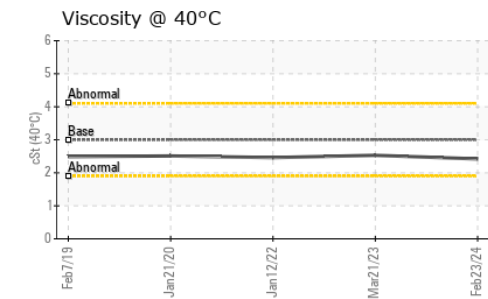
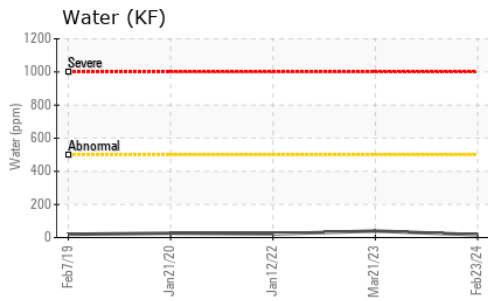
The water content is negligible. There is no bacteria or fungus (yeast and/or mold) indicated in the sample. There is no indication of any contamination in the fuel.

Silicon	ppm	ASTM D5185m	<1.0	1	<1	<1
Sodium	ppm	ASTM D5185m	<0.1	<1	0	0
Potassium	ppm	ASTM D5185m	<0.1	0	<1	0
Water	%	ASTM D6304	<0.05	0.002	0.003	0.002
ppm Water	ppm	ASTM D6304	<500	17	39.7	22.1
Particles >4µm		ASTM D7647	>2500	---	220	---
Particles >6µm		ASTM D7647	>640	---	86	---
Particles >14µm		ASTM D7647	>80	---	15	---
Particles >21µm		ASTM D7647	>20	---	5	---
Particles >38µm		ASTM D7647	>4	---	1	---
Particles >71µm		ASTM D7647	>3	---	0	---
Oil Cleanliness		ISO 4406 (c)	>18/16/13	---	15/14/11	---
% Gasoline	%	*In-House	<0.50	0.0	0.0	---
% Biodiesel	%	*In-House	<20.0	0.0	0.0	---
Calcium	ppm	ASTM D5185m	<0.1	0	<1	0
Magnesium	ppm	ASTM D5185m	<0.1	0	<1	0
Phosphorus	ppm	ASTM D5185m	<0.1	0	8	3
Zinc	ppm	ASTM D5185m	<0.1	0	<1	0

FUEL CONDITION

Sulfur value derived by ASTM D5453 method for ULSD validation.

ASTM Color	scalar	*ASTM D1500		L5.5	L5.5	---
Visc @ 40°C	cSt	ASTM D445	3.0	2.42	2.53	2.46
Sulfur	ppm	ASTM D5185m	500	413	445	537
Sulfur (UVF)	ppm	ASTM D5453		358	483	---
API Gravity		ASTM D7777	37.7	36.1	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DC0034685 **Received** : 19 Mar 2024
Lab Number : 06122863 **Tested** : 07 Apr 2024
Unique Number : 10937014 **Diagnosed** : 07 Apr 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)