



# FUEL REPORT

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

Area  
**[PMIAS3286933]**  
 Machine Id  
**KATOLIGHT SED125FRJ4 108329-0405**  
 Component  
**Diesel Fuel**  
 Fluid  
**No.2 DIESEL FUEL (LOW-SULPHUR) (--- 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		<b>DC0035929</b>	DC0025192	DC0019285
Sample Date		Client Info		<b>26 Feb 2024</b>	14 Mar 2023	15 Mar 2022
Machine Age	hrs	Client Info		<b>310</b>	305	298
Sample Status				<b>NORMAL</b>	NORMAL	ATTENTION

## 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

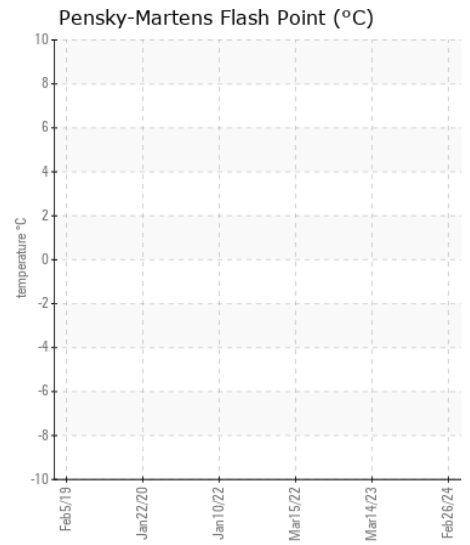
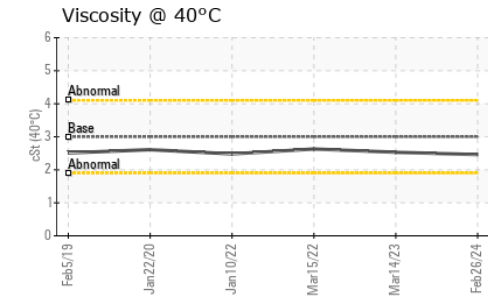
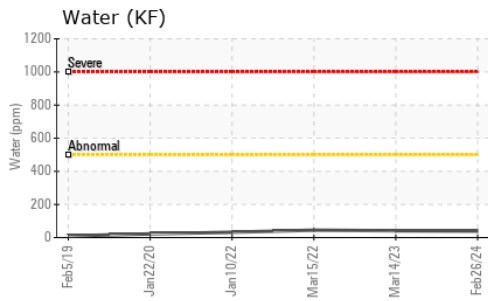
The water content is negligible. There is no bacteria or fungus (yeast and/or mold) indicated in the sample. There is no indication of any contamination in the fuel.

Silicon	ppm	ASTM D5185m	<1.0	<b>&lt;1</b>	<1	2
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>0.003</b>	0.004	0.004
ppm Water	ppm	ASTM D6304	<500	<b>39</b>	41.0	44.7
Particles >4µm		ASTM D7647	>2500	<b>---</b>	1640	3247
Particles >6µm		ASTM D7647	>640	<b>---</b>	573	1042
Particles >14µm		ASTM D7647	>80	<b>---</b>	76	96
Particles >21µm		ASTM D7647	>20	<b>---</b>	26	23
Particles >38µm		ASTM D7647	>4	<b>---</b>	1	2
Particles >71µm		ASTM D7647	>3	<b>---</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>18/16/13	<b>---</b>	18/16/13	19/17/14
% Gasoline	%	*In-House	<0.50	<b>0.0</b>	0.0	0.0
% Biodiesel	%	*In-House	<20.0	<b>0.0</b>	0.0	0.0
Calcium	ppm	ASTM D5185m	<0.1	<b>0</b>	0	● 33
Magnesium	ppm	ASTM D5185m	<0.1	<b>0</b>	0	0
Phosphorus	ppm	ASTM D5185m	<0.1	<b>0</b>	0	● 15
Zinc	ppm	ASTM D5185m	<0.1	<b>0</b>	0	● 12

## FUEL CONDITION

Sulfur value derived by ASTM D5453 method for ULSD validation.

ASTM Color	scalar	*ASTM D1500		<b>L4.5</b>	L4.0	3.0
Visc @ 40°C	cSt	ASTM D445	3.0	<b>2.46</b>	2.53	2.63
Sulfur	ppm	ASTM D5185m	250	<b>103</b>	90	139
Sulfur (UVF)	ppm	ASTM D5453		<b>99</b>	93	141
API Gravity		ASTM D7777	37.7	<b>36.5</b>	---	36.4



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : DC0035929      **Received** : 28 Feb 2024  
**Lab Number** : 06103442      **Tested** : 05 Mar 2024  
**Unique Number** : 10901672      **Diagnosed** : 05 Mar 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)