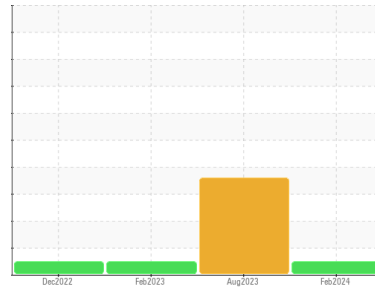




# FUEL REPORT

## Sample Rating Trend



**NORMAL**



Area

[20240624]

Machine Id

**Katolight 530 Gaither Rd**

Component

**Diesel Fuel**

Fluid

**No.2 DIESEL FUEL (ULTRALOW SULPHUR) (--- GAL)**

### DIAGNOSIS

#### Recommendation

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

#### Corrosion

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

#### 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.

#### Fuel Condition

Sulfur value derived by ASTM D5453 method for ULSD validation.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>DC0031430</b>	DC0029681	DC0027657
Sample Date	Client Info			<b>08 Feb 2024</b>	02 Aug 2023	22 Feb 2023
Machine Age	mths	Client Info		<b>0</b>	0	0
Sample Status				<b>NORMAL</b>	ATTENTION	NORMAL

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
ASTM Color	scalar	*ASTM D1500		<b>L5.0</b>	L4.0	4.0
Visc @ 40°C	cSt	ASTM D445	3.0	<b>2.76</b>	2.33	2.37

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	<b>1138</b>	0	0
Sulfur (UVF)	ppm	ASTM D5453		<b>969</b>	43	8

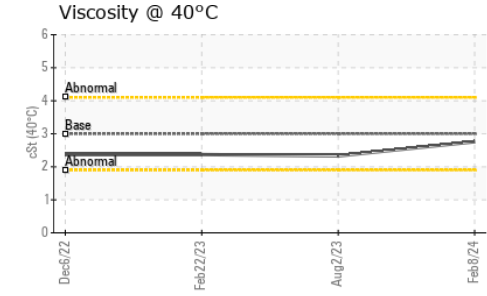
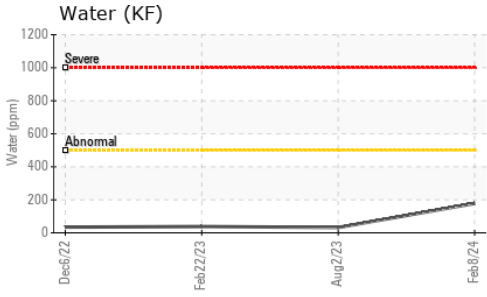
IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D7777	37.7	<b>33.0</b>	37.3	37.3

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	<b>&lt;1</b>	▲ 26	0
Sodium	ppm	ASTM D5185m	<0.1	<b>1</b>	0	0
Potassium	ppm	ASTM D5185m	<0.1	<b>0</b>	0	0
Water	%	ASTM D6304	<0.05	<b>0.017</b>	0.003	0.003
ppm Water	ppm	ASTM D6304	<500	<b>178</b>	32.3	38.2
% 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

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	---	● 5606	1080
Particles >6µm		ASTM D7647	>640	---	● 1583	300
Particles >14µm		ASTM D7647	>80	---	● 142	18
Particles >21µm		ASTM D7647	>20	---	● 43	4
Particles >38µm		ASTM D7647	>4	---	3	0
Particles >71µm		ASTM D7647	>3	---	1	0
Oil Cleanliness		ISO 4406 (c)	>18/16/13	---	● 20/18/14	17/15/11

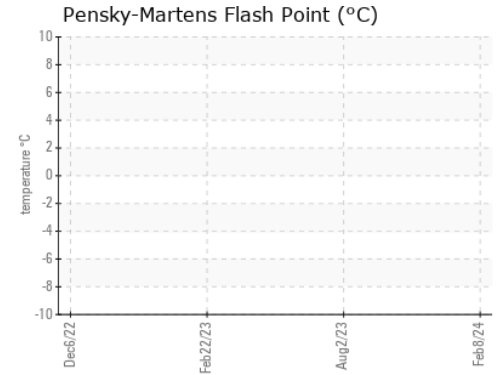
HEAVY METALS		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m	<0.1	<b>0</b>	1	0
Nickel	ppm	ASTM D5185m	<0.1	<b>0</b>	0	0
Lead	ppm	ASTM D5185m	<0.1	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m	<0.1	<b>0</b>	<1	0
Iron	ppm	ASTM D5185m	<0.1	<b>&lt;1</b>	0	0
Calcium	ppm	ASTM D5185m	<0.1	<b>0</b>	0	1
Magnesium	ppm	ASTM D5185m	<0.1	<b>0</b>	0	0
Phosphorus	ppm	ASTM D5185m	<0.1	<b>0</b>	3	0
Zinc	ppm	ASTM D5185m	<0.1	<b>0</b>	0	0

# FUEL REPORT



SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : DC0031430      **Received** : 01 Apr 2024  
**Lab Number** : 06135938      **Tested** : 12 Apr 2024  
**Unique Number** : 10955403      **Diagnosed** : 12 Apr 2024 - Doug Bogart  
**Test Package** : DF-5 ( Additional Tests: API, Cetane, Fuel, Screen )

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)

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