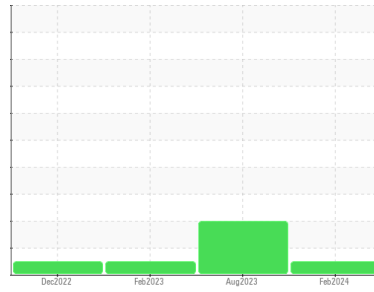




# FUEL REPORT

Sample Rating Trend



**NORMAL**



Area  
[20240622]

Machine Id  
**Katolight 520 Gaither Rd**

Component  
**Diesel Fuel**

Fluid  
**No.2 DIESEL FUEL (ULTRALOW SULPHUR) (200 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>DC0031433</b>	DC0029834	DC0027663
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>	4.5	4.0
Visc @ 40°C	cSt	ASTM D445	3.0	<b>2.74</b>	2.49	2.4

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	<b>1141</b>	0	0
Sulfur (UVF)	ppm	ASTM D5453		<b>975</b>	12	29

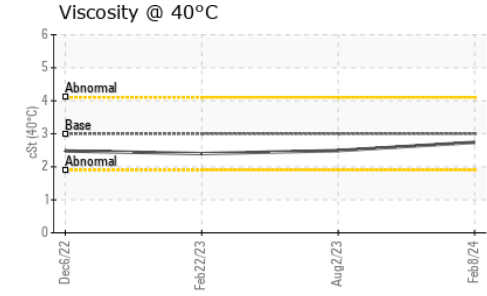
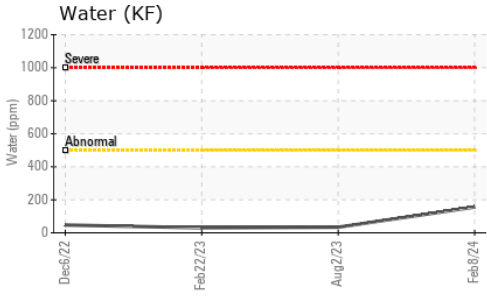
IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D7777	37.7	<b>33.0</b>	37.3	37.0

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	<b>&lt;1</b>	0	0
Sodium	ppm	ASTM D5185m	<0.1	<b>1</b>	<1	0
Potassium	ppm	ASTM D5185m	<0.1	<b>0</b>	0	0
Water	%	ASTM D6304	<0.05	<b>0.015</b>	0.003	0.003
ppm Water	ppm	ASTM D6304	<500	<b>156</b>	34.1	30.3
% 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	---	28290	2808
Particles >6µm		ASTM D7647	>640	---	7448	842
Particles >14µm		ASTM D7647	>80	---	197	45
Particles >21µm		ASTM D7647	>20	---	31	5
Particles >38µm		ASTM D7647	>4	---	3	0
Particles >71µm		ASTM D7647	>3	---	0	0
Oil Cleanliness		ISO 4406 (c)	>18/16/13	---	22/20/15	19/17/13

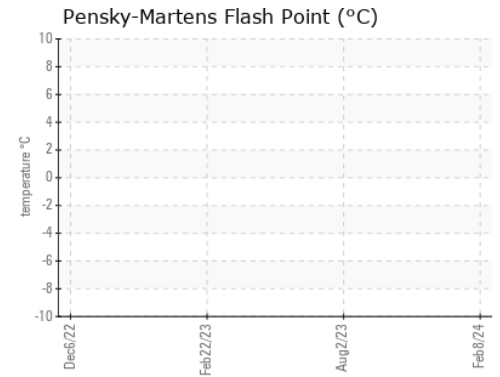
HEAVY METALS		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m	<0.1	<b>0</b>	1	0
Nickel	ppm	ASTM D5185m	<0.1	<b>0</b>	0	0
Lead	ppm	ASTM D5185m	<0.1	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m	<0.1	<b>0</b>	0	0
Iron	ppm	ASTM D5185m	<0.1	<b>&lt;1</b>	0	0
Calcium	ppm	ASTM D5185m	<0.1	<b>0</b>	0	6
Magnesium	ppm	ASTM D5185m	<0.1	<b>0</b>	<1	0
Phosphorus	ppm	ASTM D5185m	<0.1	<b>0</b>	4	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.** : DC0031433 **Received** : 01 Apr 2024  
**Lab Number** : **06135939** **Tested** : 12 Apr 2024  
**Unique Number** : 10955404 **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)

**JE RICHARDS**  
 4600 HARGROVE DR  
 LANHAM, MD  
 US 20706  
 Contact: E. NOEL  
 enoel@phalconusa.com  
 T: (240)623-4398  
 F: