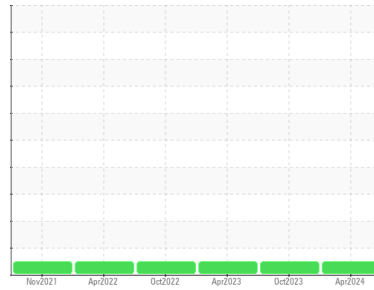




# FUEL REPORT

## Sample Rating Trend



**NORMAL**



Machine Id

**A2**

Component

**Diesel Fuel**

Fluid

**No.1 DIESEL FUEL (ULTRALOW SULPHUR) (--- GAL)**

### DIAGNOSIS

#### Recommendation

All laboratory tests indicate that this sample meets specifications for No.2 ultra-low-sulfur 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. The amount and size of particulates present in the system are acceptable.

#### Fuel Condition

Sulfur value derived by ASTM D5453 method for ULSD validation. Sulfur level is acceptable for ULSD specification.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>WC0929849</b>	WC0873531	WC0812014
Sample Date	Client Info			<b>07 Apr 2024</b>	31 Oct 2023	18 Apr 2023
Machine Age	hrs	Client Info		<b>0</b>	0	0
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
ASTM Color	scalar	*ASTM D1500		<b>L2.5</b>	L4.0	L4.0
Visc @ 40°C	cSt	ASTM D445		<b>2.42</b>	2.46	2.46

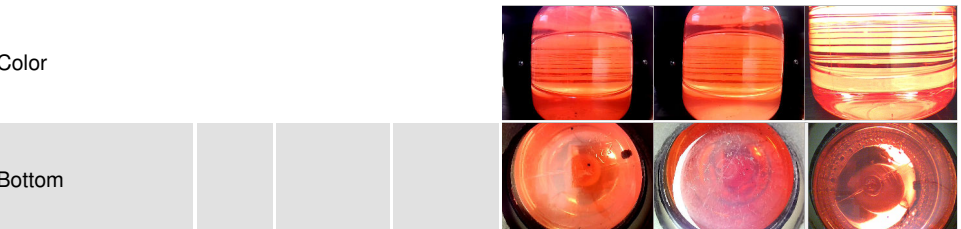
SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	7	<b>0</b>	0	2
Sulfur (UVF)	ppm	ASTM D5453		<b>10</b>	9	12

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	<b>0</b>	<1	0
Sodium	ppm	ASTM D5185m	<0.1	<b>&lt;1</b>	2	0
Potassium	ppm	ASTM D5185m	<0.1	<b>0</b>	1	<1
Water	%	ASTM D6304	<0.05	<b>0.003</b>	0.004	0.003
ppm Water	ppm	ASTM D6304	<500	<b>31</b>	43.1	38.5
% 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	<b>584</b>	1157	1638
Particles >6µm		ASTM D7647	>640	<b>219</b>	421	386
Particles >14µm		ASTM D7647	>80	<b>32</b>	59	41
Particles >21µm		ASTM D7647	>20	<b>13</b>	23	10
Particles >38µm		ASTM D7647	>4	<b>1</b>	2	1
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>18/16/13	<b>16/15/12</b>	17/16/13	18/16/13

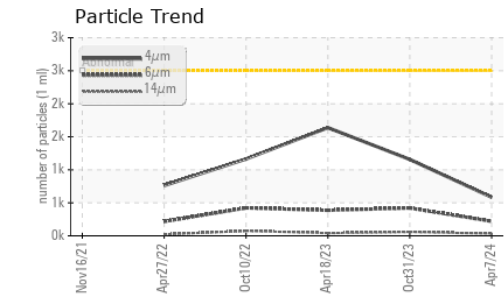
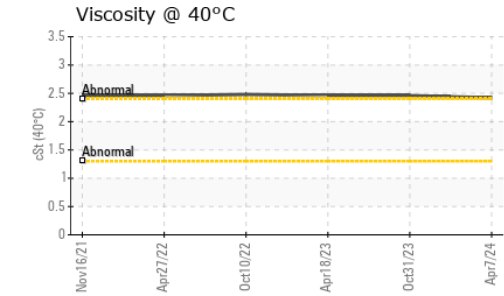
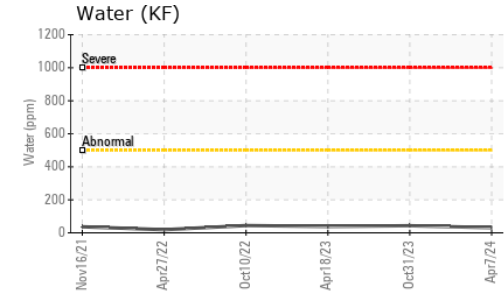
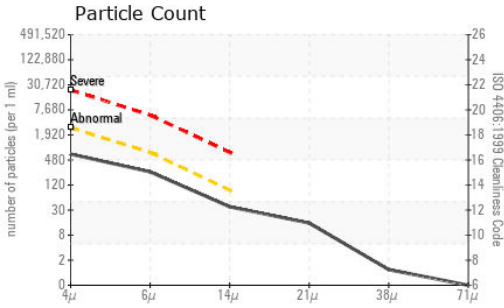
HEAVY METALS		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m	<0.1	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m	<0.1	<b>0</b>	<1	0
Lead	ppm	ASTM D5185m	<0.1	<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185m	<0.1	<b>0</b>	0	0
Iron	ppm	ASTM D5185m	<0.1	<b>0</b>	0	0
Calcium	ppm	ASTM D5185m	<0.1	<b>0</b>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

SAMPLE IMAGES		method	limit/base	current	history1	history2
---------------	--	--------	------------	---------	----------	----------

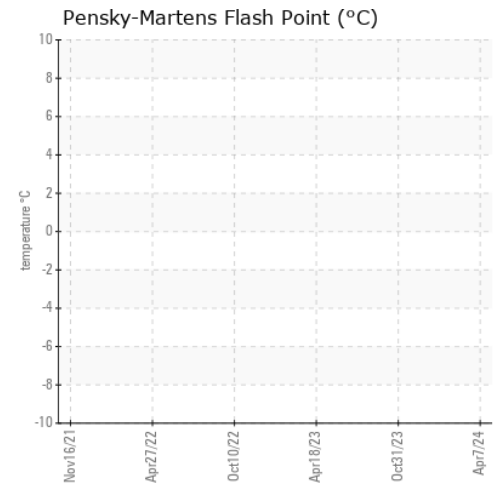




# FUEL REPORT



## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0929849 **Received** : 05 Apr 2024  
**Lab Number** : 06140755 **Tested** : 15 Apr 2024  
**Unique Number** : 10965563 **Diagnosed** : 15 Apr 2024 - Doug Bogart  
**Test Package** : DF-5 ( Additional Tests: Screen )

**NALCO AN ECOLAB COMPANY**  
 1304 SEATON ROAD UNIT 8  
 DURHAM, NC  
 US 27707  
 Contact: SHAWN SMITH  
 shawn.smith@ecolab.com

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)