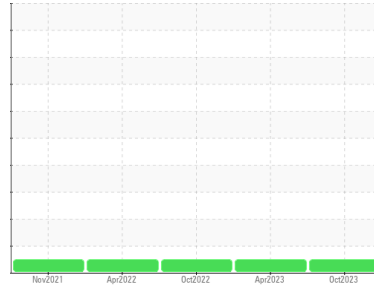




# FUEL REPORT

Sample Rating Trend

**NORMAL**



Machine Id

**B2**

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.

### 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>WC0873532</b>	WC0812011	WC0750382
Sample Date	Client Info			<b>31 Oct 2023</b>	18 Apr 2023	10 Oct 2022
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>L3.5</b>	L4.0	L4.0
Visc @ 40°C	cSt	ASTM D445		<b>2.46</b>	2.46	2.48

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	7	<b>0</b>	<1	0
Sulfur (UVF)	ppm	ASTM D5453		<b>9</b>	10	8

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	<b>&lt;1</b>	0	1
Sodium	ppm	ASTM D5185m	<0.1	<b>2</b>	0	1
Potassium	ppm	ASTM D5185m	<0.1	<b>&lt;1</b>	<1	0
Water	%	ASTM D6304	<0.05	<b>0.004</b>	0.003	0.004
ppm Water	ppm	ASTM D6304	<500	<b>41.8</b>	39.3	46.6
% 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>1315</b>	1309	1093
Particles >6µm		ASTM D7647	>640	<b>485</b>	393	380
Particles >14µm		ASTM D7647	>80	<b>75</b>	37	79
Particles >21µm		ASTM D7647	>20	<b>28</b>	8	35
Particles >38µm		ASTM D7647	>4	<b>2</b>	1	3
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>18/16/13	<b>18/16/13</b>	18/16/12	17/16/13

HEAVY METALS		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m	<0.1	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185m	<0.1	<b>&lt;1</b>	0	<1
Lead	ppm	ASTM D5185m	<0.1	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m	<0.1	<b>0</b>	0	1
Iron	ppm	ASTM D5185m	<0.1	<b>0</b>	0	0
Calcium	ppm	ASTM D5185m	<0.1	<b>4</b>	0	0
Magnesium	ppm	ASTM D5185m	<0.1	<b>0</b>	<1	0
Phosphorus	ppm	ASTM D5185m	<0.1	<b>3</b>	0	0
Zinc	ppm	ASTM D5185m	<0.1	<b>0</b>	0	0

SAMPLE IMAGES		method	limit/base	current	history1	history2
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Color

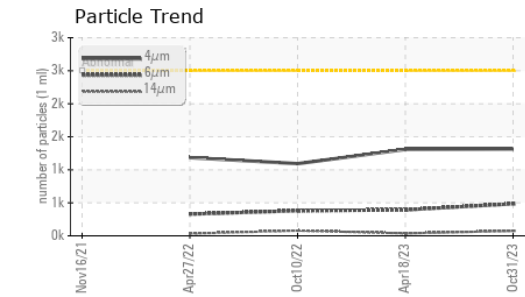
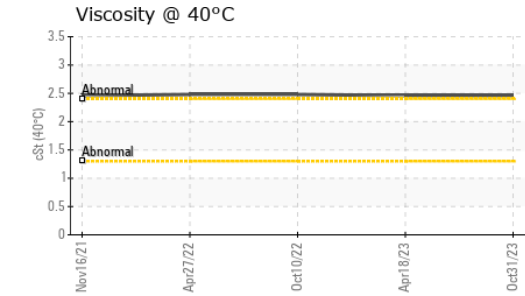
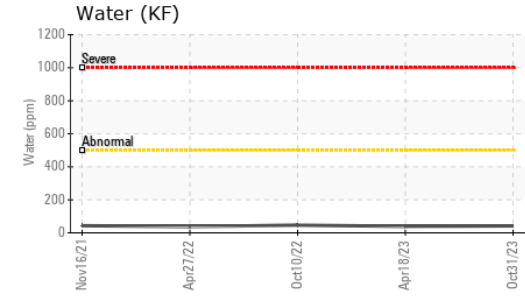
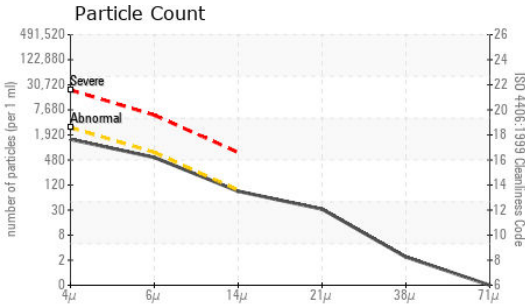


Bottom

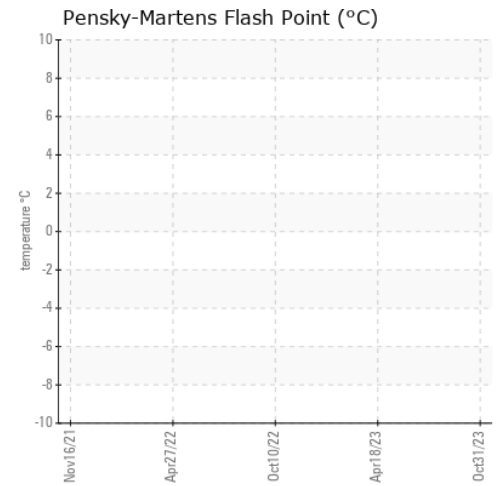




# FUEL REPORT



## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0873532 **Received** : 31 Oct 2023  
**Lab Number** : 05995173 **Diagnosed** : 13 Nov 2023  
**Unique Number** : 10723533 **Diagnostician** : 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  
 T:  
 F:

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)