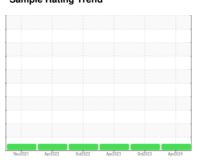


# **FUEL REPORT**

Sample Rating Trend



NORMAL



Machine Id
Component

Diesel Fuel

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 INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0929844	WC0873526	WC0812016
Sample Date		Client Info		07 Apr 2024	31 Oct 2023	18 Apr 2023
Machine Age	hrs	Client Info		0	0	0
Sample Status				NORMAL	NORMAL	NORMAL
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
ASTM Color	scalar	*ASTM D1500		L3.5	L4.0	L4.0
Visc @ 40°C	cSt	ASTM D445		2.44	2.5	2.41
SULFUR CONTE	VT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	7	0	0	1
Sulfur (UVF)	ppm	ASTM D5453		10	8	10
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	<1	<1	0
Sodium	ppm	ASTM D5185m	< 0.1	<1	2	0
Potassium	ppm	ASTM D5185m	<0.1	0	<1	<1
Water	%	ASTM D6304	< 0.05	0.003	0.004	0.003
ppm Water	ppm	ASTM D6304	<500	29	44.3	36.8
% Gasoline	%	*In-House	< 0.50	0.0	0.0	0.0
% Biodiesel	%	*In-House	<20.0	0.0	0.0	0.0
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>2500	800	2016	2649
Particles >6µm		ASTM D7647	>640	291	538	567
Particles >14µm		ASTM D7647	>80	59	90	44
Particles >21µm		ASTM D7647	>20	23	32	8
Particles >38μm		ASTM D7647	>4	2	2	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>18/16/13	17/15/13	18/16/14	19/16/13
HEAVY METALS		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m	<0.1	0	0	0
Nickel	ppm	ASTM D5185m	<0.1	0	<1	0
Lead	ppm	ASTM D5185m	<0.1	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Iron	ppm	ASTM D5185m	<0.1	0	0	0
Calcium	ppm	ASTM D5185m	< 0.1	0	0	0
Magnesium	ppm	ASTM D5185m	<0.1	<1	0	<1
Phosphorus	ppm	ASTM D5185m	< 0.1	0	3	0
Zinc	ppm	ASTM D5185m	< 0.1	0	0	0

 Zinc
 ppm
 ASTM D5185m
 <0.1</th>
 0
 0
 0
 0

 SAMPLE IMAGES
 method
 limit/base
 current
 history1
 history2

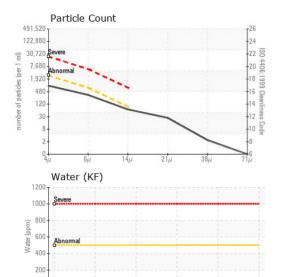
Color

Bottom

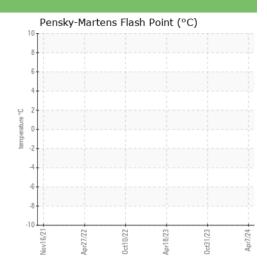


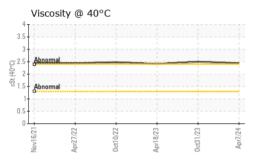


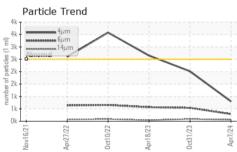
# **FUEL REPORT**













Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0929844 Lab Number : 06140758 Unique Number : 10965566

Test Package : DF-5 ( Additional Tests: Screen )

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Received **Tested** 

: 05 Apr 2024 Diagnosed

: 15 Apr 2024

: 15 Apr 2024 - Doug Bogart

US 27707 Contact: SHAWN SMITH shawn.smith@ecolab.com T:

1304 SEATON ROAD UNIT 8

**NALCO AN ECOLAB COMPANY** 

\* - 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)

F:

DURHAM, NC