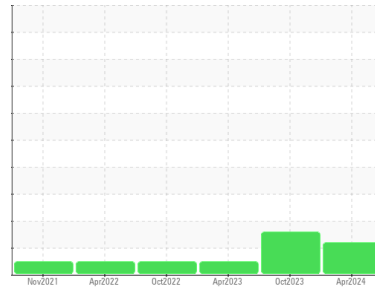




FUEL REPORT

Sample Rating Trend



ISO



Machine Id

A1
Component
Diesel Fuel
Fluid

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

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. 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

There is a moderate amount of particulates present in the fuel. The water content is negligible. There is no bacteria or fungus (yeast and/or mold) indicated in the sample.

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			WC0929843	WC0873527	WC0812017
Sample Date	Client Info			07 Apr 2024	31 Oct 2023	18 Apr 2023
Machine Age	hrs	Client Info		0	0	0
Sample Status				ATTENTION	ATTENTION	NORMAL

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
ASTM Color	scalar	*ASTM D1500		L3.5	L4.0	L4.0
Visc @ 40°C	cSt	ASTM D445		2.46	2.49	2.48

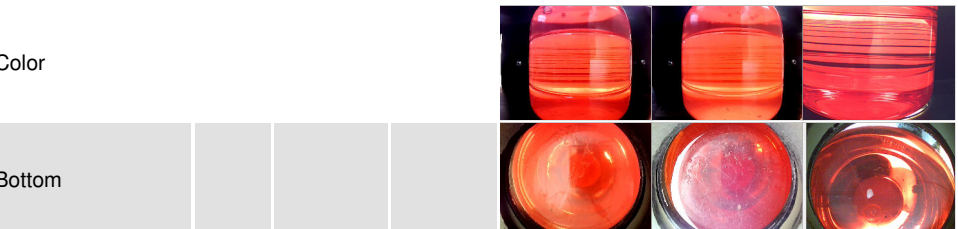
SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	7	0	0	<1
Sulfur (UVF)	ppm	ASTM D5453		9	8	9

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	0	<1	<1
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	0.011	0.003
ppm Water	ppm	ASTM D6304	<500	32	111.4	38.5
% Gasoline	%	*In-House	<0.50	0.0	0.0	0.0
% Biodiesel	%	*In-House	<20.0	0.0	0.0	0.0

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	1246	2105	1672
Particles >6µm		ASTM D7647	>640	517	862	585
Particles >14µm		ASTM D7647	>80	84	211	45
Particles >21µm		ASTM D7647	>20	35	92	9
Particles >38µm		ASTM D7647	>4	3	4	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>18/16/13	17/16/14	18/17/15	18/16/13

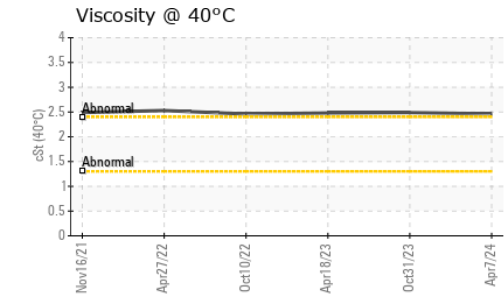
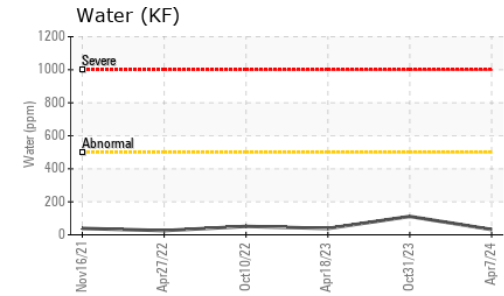
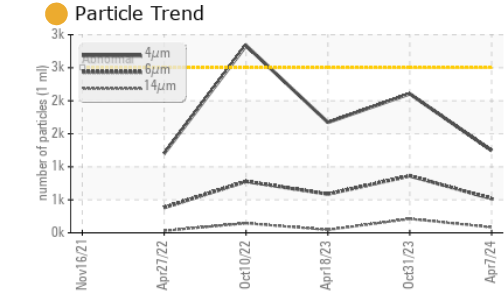
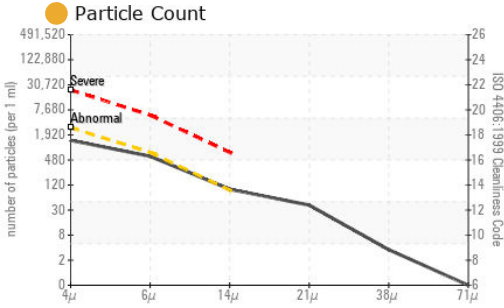
HEAVY METALS		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m	<0.1	0	0	0
Nickel	ppm	ASTM D5185m	<0.1	0	<1	0
Lead	ppm	ASTM D5185m	<0.1	0	<1	0
Vanadium	ppm	ASTM D5185m	<0.1	0	0	0
Iron	ppm	ASTM D5185m	<0.1	0	0	0
Calcium	ppm	ASTM D5185m	<0.1	0	0	0
Magnesium	ppm	ASTM D5185m	<0.1	<1	0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

SAMPLE IMAGES		method	limit/base	current	history1	history2
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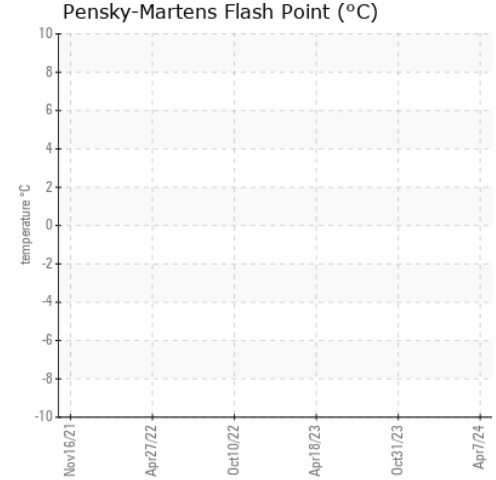




FUEL REPORT



GRAPHS



Certificate L2367

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)

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0929843
Lab Number : 06140759
Unique Number : 10965567
Test Package : DF-5 (Additional Tests: Screen)

Received : 05 Apr 2024
Tested : 15 Apr 2024
Diagnosed : 15 Apr 2024 - Doug Bogart

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

T:
F: