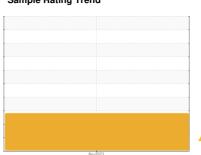


FUEL REPORT

Sample Rating Trend







EPA UST 1

Component

Tank Diesel Fuel

DIESEL FUEL No. 2 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the fuel. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Corrosion

All metal levels are normal indicating no corrosion in the system.

Contaminants

There is a light concentration of water present in the fuel. Moderate concentration of visible dirt/debris present in the fuel. There is a high amount of visible silt present in the sample. There is no bacteria or fungus (yeast and/or mold) present in the sample.

Fuel Condition

Sulfur value derived by ASTM D5453 method for ULSD validation.

				Nov2023		
SAMPLE INFORM	ΙΔΤΙΩΝ	method	limit/base	current	history1	history2
	III CIV		IIIIIIIIIIII			
Sample Number		Client Info		WC0879218		
Sample Date	la u a	Client Info		13 Nov 2023		
Machine Age	hrs	Client Info		0 ABNORMAL		
Sample Status				ADNURIMAL		
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
Specific Gravity		*ASTM D1298		0.848		
Fuel Color	text	*Visual Screen		Red		
ASTM Color	scalar	*ASTM D1500		L5.0		
Visc @ 40°C	cSt	ASTM D445	4.1	2.6		
Pensky-Martens Flash Point	°C	*PMCC Calculated		59		
SULFUR CONTE	NT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		0		
Sulfur (UVF)	ppm	ASTM D5453		312		
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86		164		
5% Distillation Point	°C	ASTM D86		195		
10% Distill Point	°C	ASTM D86		206		
15% Distillation Point	°C	ASTM D86		215		
20% Distill Point	°C	ASTM D86		223		
30% Distill Point	°C	ASTM D86		238		
40% Distill Point	°C	ASTM D86		252		
50% Distill Point	°C	ASTM D86		265		
60% Distill Point	°C	ASTM D86		279		
70% Distill Point	°C	ASTM D86		293		
80% Distill Point	°C	ASTM D86		308		
85% Distillation Point	°C	ASTM D86		317		
90% Distill Point	°C	ASTM D86		327		
95% Distillation Point	°C	ASTM D86		341		
Final Boiling Point	°C	ASTM D86		351		
Distillation Residue	%	ASTM D86		1.4		
Distillation Loss	%	ASTM D86		0.2		
IGNITION QUALIT	ΓΥ	method	limit/base	current	history1	history2
API Gravity		ASTM D7777		35.4		
Cetane Index		ASTM D4737	<40.0	46.6		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	1		
Sodium	ppm	ASTM D5185m	<0.1	2		
Potassium	ppm	ASTM D5185m	<0.1	0		
Water	%	ASTM D6304	< 0.05	<u>△</u> 0.150		
ppm Water	ppm	ASTM D6304	<500	▲ 1503.8		
% Gasoline	%	*In-House	< 0.50	0.0		
% Biodiesel	%	*In-House	<20.0	2.3		



FUEL REPORT





Laboratory Sample No. Lab Number Unique Number

: WC0879218 : 06010448

: 10749592

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 16 Nov 2023 Diagnosed : 13 Dec 2023

Diagnostician : Doug Bogart

Test Package : DF-2 (Additional Tests: Bacteria, Screen) 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)

Red Star Oil Co. 802 Purser Drive

Raleigh, NC US 27603

Contact: DANNY DURHAM ddurham@redstaroil.com

Contact/Location: DANNY DURHAM - REDRAL

T:

F: (919)779-8871