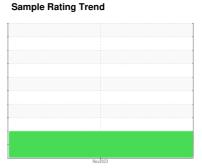


FUEL REPORT

OODT



VISUAL METAL



EPA UST 3

Component

Tank Diesel Fuel

DIESEL FUEL No. 2 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you filter this fluid before use. We advise that you inspect for the source(s) of rust. All other laboratory tests indicate that this sample meets specifications for No.2 diesel fuel. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Corrosion

Moderate concentration of visible metal present as rust.

Contaminants

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. The water content is negligible.

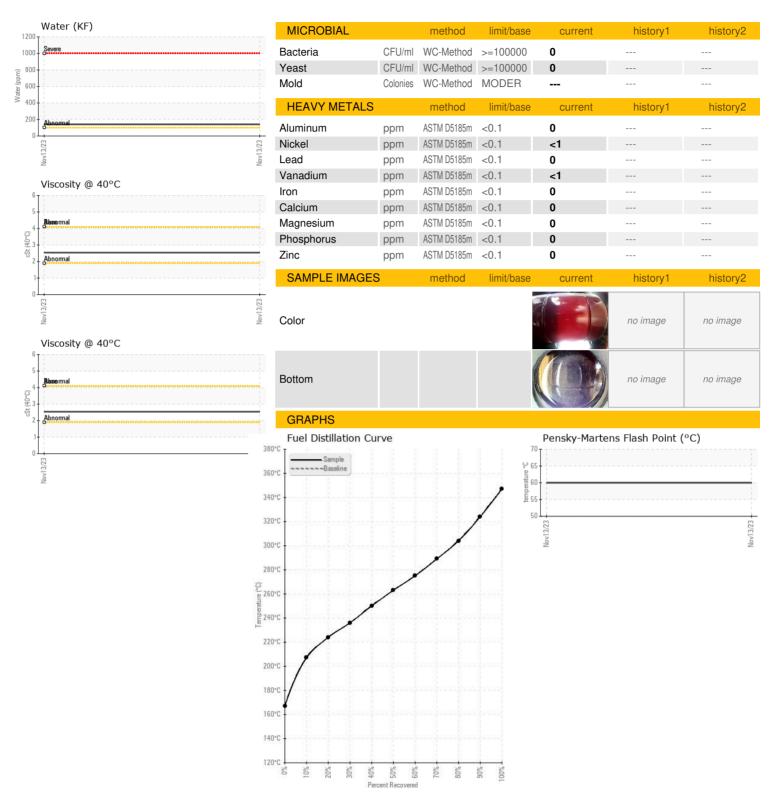
Fuel Condition

Sulfur value derived by ASTM D5453 method for ULSD validation.

				Nov2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0879219		
Sample Date		Client Info		13 Nov 2023		
Machine Age	hrs	Client Info		0		
Sample Status				ABNORMAL		
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		L5.5		
Visc @ 40°C	cSt	ASTM D445	4.1	2.54		
Pensky-Martens Flash Point	°C	*PMCC Calculated		60		
SULFUR CONTE	VT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		179		
Sulfur (UVF)	ppm	ASTM D5453		624		
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86		167		
5% Distillation Point	°C	ASTM D86		195		
10% Distill Point	°C	ASTM D86		207		
15% Distillation Point	°C	ASTM D86		216		
20% Distill Point	°C	ASTM D86		224		
30% Distill Point	°C	ASTM D86		236		
40% Distill Point	°C	ASTM D86		250		
50% Distill Point	°C	ASTM D86		263		
60% Distill Point	°C	ASTM D86		275		
70% Distill Point	°C	ASTM D86		289		
80% Distill Point	°C	ASTM D86		304		
85% Distillation Point	°C	ASTM D86		312		
90% Distill Point	°C	ASTM D86		324		
95% Distillation Point	°C	ASTM D86		340		
Final Boiling Point	°C	ASTM D86		347		
Distillation Residue	%	ASTM D86		1.4		
Distillation Loss	%	ASTM D86		0.8		
IGNITION QUALIT	ΓΥ	method	limit/base	current	history1	history2
API Gravity		ASTM D7777		35.4		
Cetane Index		ASTM D4737	<40.0	44.1		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	2		
Sodium	ppm	ASTM D5185m	<0.1	3		
Potassium	ppm	ASTM D5185m	< 0.1	0		
Water	%	ASTM D6304	< 0.05	0.014		
ppm Water	ppm	ASTM D6304	<500	141.1		
% Gasoline	%	*In-House	< 0.50	0.0		
% Biodiesel	%	*In-House	<20.0	0.0		



FUEL REPORT







Laboratory Sample No. Lab Number Unique Number

: WC0879219 : 06010446 : 10749590

: 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)

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

> T: F: (919)779-8871

Contact/Location: DANNY DURHAM - REDRAL