

FUEL REPORT

Sample Rating Trend



EPA UST 5

Component Tank Diesel Fuel Fluid DIESEL FUEL No. 2 (--- GAL)

DIAGNOSIS

A 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.

				N0V2U23		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0879221		
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		0.855		
Fuel Color	text	*Visual Screen		Red		
ASTM Color	scalar	*ASTM D1500		L5.5		
Visc @ 40°C	cSt	ASTM D445	4.1	2.62		
Pensky-Martens Flash Point	°C	*PMCC Calculated		61		
SULFUR CONTEN	T	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		0		
Sulfur (UVF)	ppm	ASTM D5453		1577		
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86		169		
5% Distillation Point	°C	ASTM D86		199		
10% Distill Point	°C	ASTM D86		212		
15% Distillation Point	°C	ASTM D86		221		
20% Distill Point	°C	ASTM D86		228		
30% Distill Point	°C	ASTM D86		241		
40% Distill Point	°C	ASTM D86		255		
50% Distill Point	°C	ASTM D86		267		
60% Distill Point	°C	ASTM D86		280		
70% Distill Point	°C	ASTM D86		292		
80% Distill Point	°C	ASTM D86		307		
85% Distillation Point	°C	ASTM D86		315		
90% Distill Point	°C	ASTM D86		325		
95% Distillation Point	°C	ASTM D86		339		
Final Boiling Point	°C	ASTM D86		347		
Distillation Residue	%	ASTM D86		1.4		
Distillation Loss	%	ASTM D86		0.6		
IGNITION QUALIT	ΓY	method	limit/base	current	history1	history2
API Gravity		ASTM D7777		34.0		
Cetane Index		ASTM D4737	<40.0	42.8		
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>		
ppm Water	ppm	ASTM D6304	<500	1944.8		
% Gasoline	%	*In-House	<0.50	0.0		
% Biodiesel	%	*In-House	<20.0	1.4		



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method

MICROBIAL







limit/base

current











history1

history2

Red Star Oil Co. 802 Purser Drive Raleigh, NC US 27603 Contact: DANNY DURHAM ddurham@redstaroil.com T: (2) F: (919)779-8871



 Unique Number
 : 10749591
 Diagnostician
 : Doug Bogart

 Certificate 12367
 Test Package
 : DF-2 (Additional Tests: Bacteria, Screen)
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 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)

: WC0879221

: 06010447

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

: 16 Nov 2023

: 13 Dec 2023

Received

Diagnosed

Laboratory

Sample No.

Lab Number

Contact/Location: DANNY DURHAM - REDRAL