

FUEL REPORT

Sample Rating Trend

GOOGLE-LNR-B-2-C

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

DIAGNOSIS

A Recommendation

We advise that you filter this fluid before use. 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 high 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.

				0ct2023		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0869449		
Sample Date		Client Info		05 Oct 2023		
Machine Age	hrs	Client Info		0		
Sample Status				ATTENTION		
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
Specific Gravity		*ASTM D1298		0.844		
Fuel Color	text	*Visual Screen		Red		
ASTM Color	scalar	*ASTM D1500		L4.5		
Visc @ 40°C	cSt	ASTM D445	4.1	2.46		
Pensky-Martens Flash Point	°C	*PMCC Calculated		56		
SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		0		
Sulfur (UVF)	ppm	ASTM D5453		12		
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86		157		
5% Distillation Point	°C	ASTM D86		192		
10% Distill Point	°C	ASTM D86		203		
15% Distillation Point	°C	ASTM D86		211		
20% Distill Point	°C	ASTM D86		218		
30% Distill Point	°C	ASTM D86		233		
40% Distill Point	°C	ASTM D86		246		
50% Distill Point	°C	ASTM D86		259		
60% Distill Point	°C	ASTM D86		273		
70% Distill Point	°C	ASTM D86		287		
80% Distill Point	°C	ASTM D86		303		
85% Distillation Point	°C	ASTM D86		313		
90% Distill Point	°C	ASTM D86		325		
95% Distillation Point	°C	ASTM D86		342		
Final Boiling Point	°C	ASTM D86		347		
Distillation Residue	%	ASTM D86 ASTM D86		1.4		
	%			0.6		
	Y	method	limit/base	current	history1	history2
API Gravity		ASTM D7777	40.0	36.2		
Cetane Index		ASTM D4737	<40.0	46.9		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	0		
Sodium	ppm	ASTM D5185m	<0.1	0		
Potassium	ppm	ASTM D5185m	<0.1	<1		
Water	%	ASTM D6304	< 0.05	0.010		
ppm Water	ppm	ASTM D6304	<500	109.0		
% Gasoline	%	*In-House	< 0.50	0.0		
% Biodiesel	%	*In-House	<20.0	0.0		



200 Abnorma 0. 0ct5/23

cSt (40°C)

0 0ct5/23

cSt (40°C) Abi

Oct5/23

Abnorma

Viscosity @ 40°C

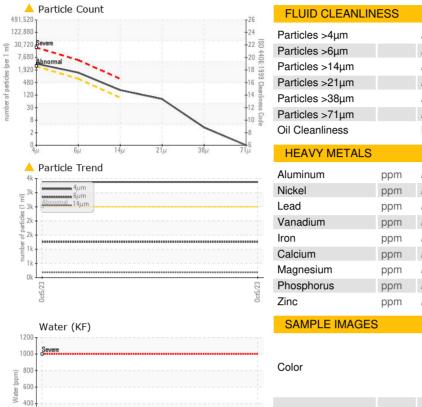
Viscosity @ 40°C

FUEL REPORT

method

limit/base

current



	T ²⁶	FLUID GLEANL		method	limit/base	e current	nistory i	nistory2
	-24 F	Particles >4µm		ASTM D7647	>2500	A 3376		
	-22 8	Particles >6µm		ASTM D7647	>640	<u> </u>		
	-20 4406:1999	Particles >14µm		ASTM D7647	>80	184		
	10 0	Particles >21µm		ASTM D7647	>20	<u> </u>		
	-14 In F	Particles >38µm		ASTM D7647	>4	3		
	12 % F	Particles >71µm		ASTM D7647	>3	0		
		Dil Cleanliness		ISO 4406 (c)	>18/16/13	1 9/17/15		
21µ 38µ	71µ	HEAVY METAL	<u>م</u>	method	limit/base	e current	history1	history2
							Thistory	This tory 2
		Aluminum	ppm	ASTM D5185m		0		
		lickel	ppm	ASTM D5185m		0		
		ead	ppm	ASTM D5185m	<0.1	0		
		/anadium	ppm	ASTM D5185m		0		
		ron	ppm		<0.1	<1		
		Calcium	ppm	ASTM D5185m		<1		
****		/lagnesium	ppm	ASTM D5185m		<1		
	볷	Phosphorus	ppm	ASTM D5185m		5		
	° 2	Zinc	ppm	ASTM D5185m	<0.1	0		
		SAMPLE IMAGE	ES	method	limit/base	e current	history1	history2
	C	Color					no image	no image
	0ct5/23	Bottom					no image	no image
	ō	GRAPHS						
		Fuel Distillation (Curve			Pensky-Ma	rtens Flash Point ((°C)
	30°C •	Sample			ç	70		
	50°C ∙	Baseline			erature	60		
	10°C -				temp	50-		
	20°C -				/	40		0ct5/23 +
	.0°C			/		0ct5/23		Oct5
				/				
	- 0°C -		1	/				
	0ct5/23		/					
	10°C .		*					
	ية 220°C ·							
	200°C •							
		/						
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	180°C ·	/						
	160°C							
	140°C ·							
	120°C -				<u> </u>			
		3 2 1	40% 40% 60%	70%	90% 100%			
			Percent Recovered					
Laborato Sample N Lab Num	No. : \ Iber : (WearCheck USA - WC0869449 <mark>)5981551</mark> 10698846	501 Madis Received Diagnose Diagnost	ed : 17 (ry, NC 275 Oct 2023 Oct 2023 Ig Bogart	13		UEL SYSTEMS 6 CLASSIC RD APEX, NC US 27539

Contact/Location: JOHN MORREALE - VITAPE

history1

history2