

FUEL REPORT

Sample Rating Trend

ISO

Machine le **GOOGLE-LNR-B-1-J** Component

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.

				Oct2023		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0869447		
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	2.5		
Pensky-Martens Flash Point	°C	*PMCC Calculated		56		
SULFUR CONTER	NT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		0		
Sulfur (UVF)	ppm	ASTM D5453		8		
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86		156		
5% Distillation Point	°C	ASTM D86		190		
10% Distill Point	°C	ASTM D86		202		
15% Distillation Point	°C	ASTM D86		212		
20% Distill Point	°C	ASTM D86		220		
30% Distill Point	°C	ASTM D86		234		
40% Distill Point	°C	ASTM D86		248		
50% Distill Point	°C	ASTM D86		262		
60% Distill Point	°C	ASTM D86		275		
70% Distill Point	°C	ASTM D86		290		
80% Distill Point	°C °C	ASTM D86		305 315		
85% Distillation Point 90% Distill Point	°C	ASTM D86 ASTM D86		315		
95% Distillation Point	°C	ASTM D86		344		
Final Boiling Point	°C	ASTM D86		347		
Distillation Residue	%	ASTM D86		1.4		
Distillation Loss	%	ASTM D86		0.8		
IGNITION QUALIT	ΓY	method	limit/base	current	history1	history2
API Gravity		ASTM D7777		36.2		
Cetane Index		ASTM D4737	<40.0	47.4		
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	0.009		
ppm Water	ppm	ASTM D6304	<500	96.0		
% Gasoline	%	*In-House	<0.50	0.0		
% Biodiesel	%	*In-House	<20.0	0.0		



Viscosity @ 40°C

Viscosity @ 40°C

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Abnorma

M5/23

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cSt (40°C)

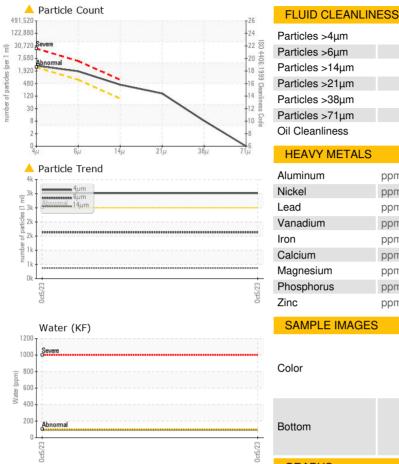
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cSt (40°C)

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Abnorma

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FLUID	CLEANLIN	NESS	method	limit/base	current	history1	history
Particles			ASTM D7647	>2500	A 3018		
Particles			ASTM D7647	>640	🔺 1631		
Particles Particles Particles Particles Particles	-		ASTM D7647		A 370		
Particles	-		ASTM D7647		<u> </u>		
Particles	s >38µm		ASTM D7647	>4	<mark>/</mark> 7		
Particles	s >71µm		ASTM D7647	>3	0		
Particles Oil Clear	nliness		ISO 4406 (c)	>18/16/13	<u> </u>		
HEAV	Y METALS		method	limit/base	current	history1	history
Aluminur	m	ppm	ASTM D5185m	<0.1	2		
Nickel		ppm	ASTM D5185m	<0.1	0		
Lead		ppm	ASTM D5185m	<0.1	0		
Vanadiur	m	ppm	ASTM D5185m	<0.1	0		
Iron		ppm	ASTM D5185m	<0.1	0		
Calcium		ppm	ASTM D5185m	<0.1	<1		
Magnesi	ium	ppm	ASTM D5185m	<0.1	<1		
Phospho	orus	ppm	ASTM D5185m	<0.1	0		
Zinc		ppm	ASTM D5185m	<0.1	0		
SAMPI	LE IMAGE	S	method	limit/base	current	history1	histor
Color						no image	no imag
Bottom						no image	no imag
Bottom GRAPI	HS					no image	no imag
GRAPI Fuel Di	HS istillation Cu	ırve			Pensky-Marter	no image ns Flash Point (_
GRAPI Fuel Di	istillation Cu - Sample	irve		ture °C	°T		_
GRAPI	istillation Cu	ırve		mperature °C	°T		
GRAPI	istillation Cu - Sample	Irve		temperature			_
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GRAPI	istillation Cu - Sample	ırve		temperature	0		_
GRAPI Fuel Di 30°C 50°C 20°C 30°C 30°C	istillation Cu - Sample	Jrve		temperature			_
GRAPI	istillation Cu - Sample	Irve	_	temperature			_
GRAPI	istillation Cu - Sample	ırve		temperature			_
GRAPI 50°C 50°C 40°C 20°C 30°C 40°C 30°C 40°C 50°C 40°C 50°C 40°C 50°C 40°C 50°C 40°C 50°C 40°C 50°C 40°C 50°C 40°C 50°C 40°C 50°C 40°C 50°C 40°C 50°C 40°C 50°C 40°C 50°C 40°C 50°C 40°C 50°C 40°C 50°C 40°C 50°C 40°C 40°C 40°C 40°C 40°C 40°C 40°C 4	istillation Cu - Sample	ırve		temperature			_
GRAPI	istillation Cu - Sample	ırve		temperature			_
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GRAPI Fuel Di 30°C 40°C 20°C 30°C 30°C 40°C 30°C 30°C 40°C 20°C 30°C 20°C 20°C 20°C	istillation Cu - Sample	Jrve		temperature			_
GRAPI Fuel Di 30°C 30°C 40°C 20°C 30°C 30°C 40°C 30°C 50°C 40°C 20°C 30°C 40°C 50°C 10°C 50	istillation Cu - Sample	Irve		temperature			_
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GRAPI Fuel Di 30°C 30°C 40°C 20°C 30°C 30°C 30°C 30°C 40°C 20°C 30°C 30°C 40°C 20°C 30°C 40	istillation Cu -Sample -Baseline						
GRAPI 50°C 50°C 50°C 20°C 30°C 30°C 50°C 30°C 30°C 50°C 30°C 50°C 30°C 50°C 30°C 10°C 10°C 10°C 10°C 10°C 10°C 10°C 1	Istillation Cu -Sample -Baseline -Sup -Sup -Sup -Sup	Jrve	70%-	temperature			_
GRAPI Fuel Di 30°C 30°C 30°C 30°C 30°C 30°C 30°C 30°C	istillation Cu -Sample -Baseline -Baseline -Source Control of Cont		con Ave., Ca I : 17 (cd : 25 (100% temperature		ns Flash Point (JEL SYSTE 6 CLASSIC APEX, US 27

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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