

# **FUEL REPORT**

## **VIS DEBRIS**



# GOOGLE-LNR-B-1-D

Component **Diesel Fuel** 

**DIESEL FUEL No. 2 (--- GAL)** 

### **DIAGNOSIS**

#### Recommendation

We recommend you service the filters on this component if applicable. All other laboratory tests indicate that this sample meets specifications for No.2 ultra-low-sulfur diesel fuel.

#### Corrosion

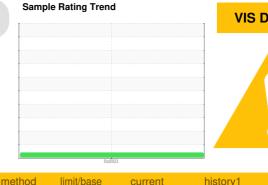
All metal levels are normal indicating no corrosion in the system.

#### Contaminants

Moderate concentration of visible dirt/debris 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.



SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		WC0869492		
Sample Date		Client Info		05 Oct 2023		
Machine Age	hrs	Client Info		0		
Sample Status				MARGINAL		
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	2.6		
Pensky-Martens Flash Point	°C	*PMCC Calculated		58		
SULFUR CONTE	NT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		0		
Sulfur (UVF)	ppm	ASTM D5453		10		
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86		162		
5% Distillation Point	°C	ASTM D86		191		
10% Distill Point	°C	ASTM D86		204		
15% Distillation Point	°C	ASTM D86		213		
20% Distill Point	°C	ASTM D86		221		
30% Distill Point	°C	ASTM D86		235		
40% Distill Point	°C	ASTM D86		250		
50% Distill Point	°C	ASTM D86		263		
60% Distill Point	°C	ASTM D86		276		
70% Distill Point	°C	ASTM D86		290		
80% Distill Point	°C	ASTM D86		305		
85% Distillation Point	°C	ASTM D86		314		
90% Distill Point	°C	ASTM D86		325		
95% Distillation Point		ASTM D86		342		
Final Boiling Point	°C	ASTM D86		347		
Distillation Residue	%	ASTM D86		1.4		
Distillation Loss	%	ASTM D86		0.6		
IGNITION QUALIT	ΓΥ	method	limit/base	current	history1	history2
API Gravity		ASTM D7777		36.2		
Cetane Index		ASTM D4737	<40.0	47.6		
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	0		
Water	%	ASTM D6304	< 0.05	0.009		
ppm Water	ppm	ASTM D6304	<500	92.4		
% Gasoline	%	*In-House	< 0.50	0.0		
% Biodiesel	%	*In-House	<20.0	0.0		



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Laboratory Sample No. Lab Number Unique Number

: WC0869492 : 05981553 : 10698848

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 Oct 2023 Diagnosed

: 08 Nov 2023 Diagnostician : Doug Bogart

Test Package : DF-2 ( Additional Tests: 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.

Contact: JOHN MORREALE jmorreale@vitalfuelsystems.com

T: (919)629-8180 F: (919)303-7399

1076 CLASSIC RD

APEX, NC

US 27539

**VITAL FUEL SYSTEMS** 

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

Contact/Location: JOHN MORREALE - VITAPE