

FUEL REPORT

Sample Rating Trend

ISO

Machine Id

NO UNIT CU0023811

Component Diesel Fuel

Fluid No.2 DIESEL FUEL (ULTRALOW SULPHUR) (--- GAL)

DIAGNOSIS

Recommendation

Laboratory test indicate that this fuel is suitable for use and meets all test requirements. We advise that you filter this fluid before use. We recommend you service the filters on this component. Resample at the next service interval to monitor.

Contaminants

There is a light amount of silt (particulates < 14 microns in size) present in the fuel. The water content is negligible.

Fuel Condition

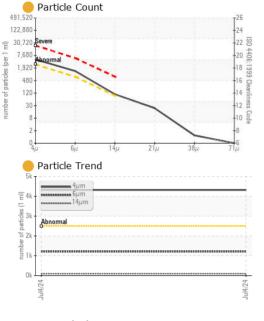
All laboratory tests indicate that this sample meets specifications for No.2 ultra-low-sulfur diesel fuel (US EPA/CGSB-3.517-3 type B).

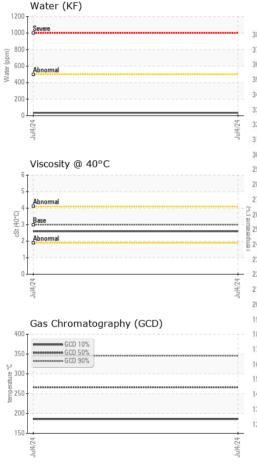
SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		CU0023811		
Sample Date		Client Info		04 Jul 2024		
Machine Age	hrs	Client Info		0		
Sample Status				ATTENTION		
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.839	0.843		
Fuel Color	text	Visual Screen*	Yllow	Pink		
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	2.6		
Pensky-Martens Flash Point	°C	ASTM D7215*	52	58.9		
SULFUR CONTER	NT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	10	10		
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	171		
5% Distillation Point	°C	ASTM D2887*		197		
10% Distill Point	°C	ASTM D2887*	201	207		
15% Distillation Point	°C	ASTM D2887*		215		
20% Distill Point	°C	ASTM D2887*	216	223		
30% Distill Point	°C	ASTM D2887*	230	237		
40% Distill Point	°C	ASTM D2887*	243	250		
50% Distill Point	°C	ASTM D2887*	255	263		
60% Distill Point	°C	ASTM D2887*	267	276		
70% Distill Point	°C	ASTM D2887*	280	289		
80% Distill Point	°C	ASTM D2887*	295	304		
85% Distillation Point	°C	ASTM D2887*		314		
90% Distill Point	°C	ASTM D2887*	310	325		
95% Distillation Point	°C	ASTM D2887*		343		
Final Boiling Point	°C	ASTM D2887*	341	376		
IGNITION QUALI	ΓY	method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	37.7	36		
Cetane Index		ASTM D4737*	<40.0	48		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	<1.0	0		
Sodium	ppm	ASTM D5185(m)	<0.1	0		
Potassium	ppm	ASTM D5185(m)	<0.1	0		
Water	%	ASTM D6304*	<0.05	0.003		
ppm Water	ppm	ASTM D6304*	<500	34		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	4320		
Particles >6µm		ASTM D7647	>640	<mark> </mark> 1208		
Particles >14µm		ASTM D7647	>80	93		
Particles >21µm		ASTM D7647	>20	20		
Particles >38µm		ASTM D7647	>4	1		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>18/16/13	e 19/17/14		
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Contact/Location: Elisia Johnson - CUMMISGEN



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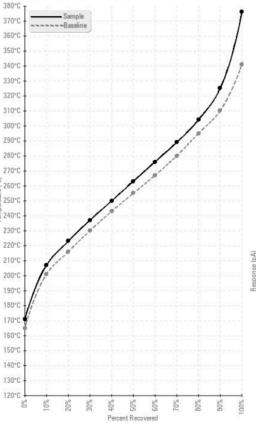


HEAVY METALS	;	method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185(m)	<0.1	0		
Nickel	ppm	ASTM D5185(m)	<0.1	0		
Lead	ppm	ASTM D5185(m)	<0.1	0		
Vanadium	ppm	ASTM D5185(m)	<0.1	0		
Iron	ppm	ASTM D5185(m)	<0.1	0		
Calcium	ppm	ASTM D5185(m)	<0.1	<1		
Magnesium	ppm	ASTM D5185(m)	<0.1	0		
Phosphorus	ppm	ASTM D5185(m)	<0.1	0		
Zinc	ppm	ASTM D5185(m)	<0.1	<1		

Color



65



e 55 Ba 50 40 4 GCD Spectrum 12,00 10% 11.000 10.000 9,000 8,000 7.000 6,000 5.000 4.000 3,000 2.000 1.00 Time (min)

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CUMMINS CANADA ULC - GENERATOR DIVISION CALA : 05 Jul 2024 Sample No. : CU0023811 Received 7175 PACIFIC CIRCLE Lab Number : 02646004 Tested : 10 Jul 2024 MISSISSAUGA, ON ISO 17025:2017 Accredited Laboratory Unique Number : 5811556 Diagnosed : 10 Jul 2024 - Kevin Marson Test Package : FUEL (Additional Tests: CC Flash, PrtCount) Contact: Elisia Johnson To discuss this sample report, contact Customer Service at 1-800-268-2131. elisia.johnson@cummins.com T: (905)795-0050 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied. F: (905)795-9252

Report Id: CUMMISGEN [WCAMIS] 02646004 (Generated: 07/10/2024 08:42:11) Rev: 1

Contact/Location: Elisia Johnson - CUMMISGEN

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