

Area

FUEL REPORT

Sample Rating Trend

ISO

[50561] SUMMIT CENTRE Component Diesel Fuel

Fluid No.2 DIESEL FUEL (LOW-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. We recommend an early resample to monitor this condition.

Contaminants

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

Fuel Condition

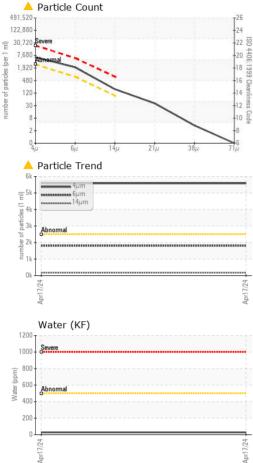
All laboratory tests indicate that this sample meets specifications for No.2 diesel fuel, low sulfur (US EPA/CGSB-3.517-3 type B). The fuel is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		CU0022649		
Sample Date		Client Info		17 Apr 2024		
Machine Age	hrs	Client Info		0		
Sample Status				ABNORMAL		
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.839	0.828		
Fuel Color	text	Visual Screen*	Yllow	Yllow		
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	2		
Pensky-Martens Flash Point	°C	ASTM D7215*	52	50.9		
SULFUR CONTER	NT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	250	37		
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	160		
5% Distillation Point	°C	ASTM D2887*		179		
10% Distill Point	°C	ASTM D2887*	201	188		
15% Distillation Point	°C	ASTM D2887*		195		
20% Distill Point	°C	ASTM D2887*	216	202		
30% Distill Point	°C	ASTM D2887*	230	215		
40% Distill Point	°C	ASTM D2887*	243	227		
50% Distill Point	°C	ASTM D2887*	255	240		
60% Distill Point	°C	ASTM D2887*	267	251		
70% Distill Point	°C	ASTM D2887*	280	263		
80% Distill Point	°C	ASTM D2887*	295	277		
85% Distillation Point	°C	ASTM D2887*		287		
90% Distill Point	°C	ASTM D2887*	310	298		
95% Distillation Point	°C	ASTM D2887*		316		
Final Boiling Point	°C	ASTM D2887*	341	352		
IGNITION QUALIT	ΓY	method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	37.7	39		
Cetane Index		ASTM D4737*	<40.0	47		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	<1.0	0		
Sodium	ppm	ASTM D5185(m)	<0.1	<1		
Potassium	ppm	ASTM D5185(m)	<0.1	0		
Water	%	ASTM D6304*	<0.05	0.003		
ppm Water	ppm	ASTM D6304*	<500	27		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	<u> </u>		
Particles >6µm		ASTM D7647	>640	<u> </u>		
Particles >14µm		ASTM D7647	>80	🔺 163		
Particles >21µm		ASTM D7647	>20	<mark>)</mark> 34		
Particles >38µm		ASTM D7647	>4	3		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>18/16/13	A 20/18/15		
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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	0		
Magnesium	ppm	ASTM D5185(m)	<0.1	0		
Phosphorus	ppm	ASTM D5185(m)	<0.1	<1		
Zinc	ppm	ASTM D5185(m)	<0.1	<1		

Color

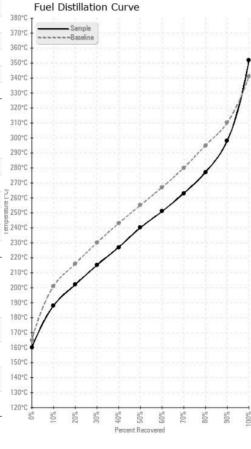
Bottom

Anr17/74

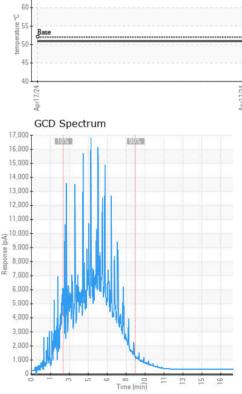
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61









Viscosity @ 40°C

Gas Chromatography (GCD)

GCD 109

GCD 90%

Ab

Anr17/74

35

30

25

200

150

(40°C) Ba

cSt (

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CUMMINS EASTERN CANADA INC. CALA Sample No. : CU0022649 Received : 18 Apr 2024 122 CLYDE AVENUE Lab Number : 02630020 Tested : 22 Apr 2024 MOUNT PEARL, NL ISO 17025:2017 Accredited Unique Number : 5763152 Diagnosed : 22 Apr 2024 - Kevin Marson CA A1N 4S3 Laboratory Test Package : FUEL (Additional Tests: CC Flash, PrtCount) Contact: DARRYL CAREY DARRYL.CAREY@CUMMINS.COM To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: (709)747-1135 Validity of results and interpretation are based on the sample and information as supplied. F: (709)747-1084

Report Id: CUMMOU [WCAMIS] 02630020 (Generated: 04/22/2024 09:35:29) Rev: 1

Contact/Location: DARRYL CAREY - CUMMOU