

FUEL REPORT

Sample Rating Trend



Machine Id

PC0003997

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 perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We advise that you filter this fluid before use. We recommend an early resample to monitor this condition.

Contaminants

There is a moderate amount of particulates (2 to 100 microns in size) present in the fuel. The water content is negligible.

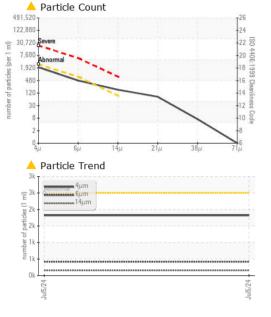
Fuel Condition

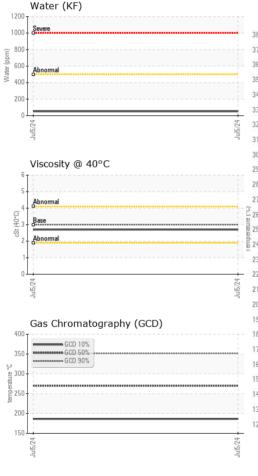
The fuel is still serviceable provided that the contaminant(s) can be reduced to acceptable levels. All laboratory tests indicate that this sample meets specifications for No.2 ultra-low-sulfur diesel fuel (US EPA/CGSB-3.517-3 type B).

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		WC0959484				
Sample Date		Client Info		05 Jul 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	0.847				
Fuel Color	text	Visual Screen*	Yllow	Yllow				
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	2.7				
Pensky-Martens Flash Point	°C	ASTM D7215*	52	61.5				
SULFUR CONTE	NT	method	limit/base	current	history1	history2		
Sulfur	ppm	ASTM D5185(m)	10	7				
DISTILLATION		method	limit/base	current	history1	history2		
Initial Boiling Point	°C	ASTM D2887*	165	172				
5% Distillation Point	°C	ASTM D2887*		198				
10% Distill Point	°C	ASTM D2887*	201	209				
15% Distillation Point	°C	ASTM D2887*		217				
20% Distill Point	°C	ASTM D2887*	216	226				
30% Distill Point	°C	ASTM D2887*	230	241				
40% Distill Point	°C	ASTM D2887*	243	254				
50% Distill Point	°C	ASTM D2887*	255	266				
60% Distill Point	°C	ASTM D2887*	267	279				
70% Distill Point	°C	ASTM D2887*	280	292				
80% Distill Point	°C	ASTM D2887*	295	308				
85% Distillation Point	°C	ASTM D2887*		318				
90% Distill Point	°C	ASTM D2887*	310	329				
95% Distillation Point	°C	ASTM D2887*		345				
Final Boiling Point	°C	ASTM D2887*	341	372				
IGNITION QUALIT	ΓY	method	limit/base	current	history1	history2		
API Gravity		ASTM D1298*	37.7	35				
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	0				
Potassium	ppm	ASTM D5185(m)	<0.1	0				
Water	%	ASTM D6304*	<0.05	0.005				
ppm Water	ppm	ASTM D6304*	<500	52				
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2		
Particles >4µm		ASTM D7647	>2500	1822				
Particles >6µm		ASTM D7647	>640	420				
Particles >14µm		ASTM D7647	>80	<mark> </mark> 153				
Particles >21µm		ASTM D7647	>20	<u> </u>				
Particles >38µm		ASTM D7647	>4	6				
Particles >71µm		ASTM D7647	>3	0				
Oil Cleanliness		ISO 4406 (c)	>18/16/13	e 18/16/14				
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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	0		
Zinc	ppm	ASTM D5185(m)	<0.1	0		

limit/base

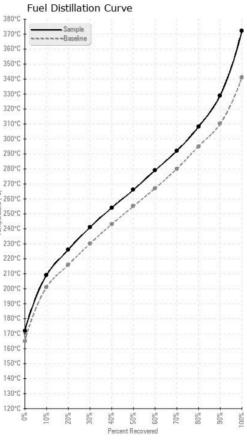
current

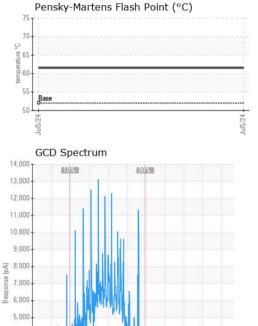
method

Color

SAMPLE IMAGES







history1

history2

4 000 3 000 2.000 1,00 Time (min)

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA Received : 08 Jul 2024 Sample No. : WC0959484 Lab Number : 02646496 Tested : 11 Jul 2024 ISO 17025:2017 Accredited Laboratory Unique Number : 5812048 Diagnosed : 11 Jul 2024 - Kevin Marson Test Package : FUEL (Additional Tests: CC Flash, PrtCount) 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. Validity of results and interpretation are based on the sample and information as supplied.

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Contact/Location: Michael Kiolbasa - NOR215NOR