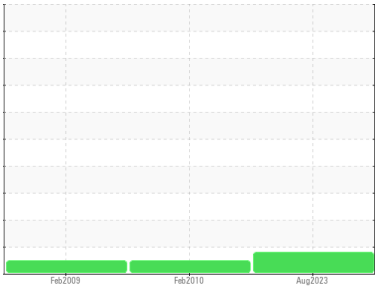
FUEL REPORT

Sample Rating Trend



ISO

Area
SHERBOURNE HEALTH [180977]
Machine Id
DDCMTV 5312002415
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. Resample at the next service interval to monitor.

Corrosion

{not applicable}

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 diesel fuel, low sulfur (US EPA/CGSB-3.517-3 type B).

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WA0019067**	HD0002973	HD0002674
Sample Date		Client Info		**02 Aug 2023**	09 Feb 2010	24 Feb 2009
Machine Age	hrs	Client Info		**273**	46	34
Sample Status				**ATTENTION**	NORMAL	NORMAL

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.839	**0.845**	0.841	0.858
Fuel Color	text	Visual Screen*	Yllow	**Red**	Orang	Orang
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	**2.5**	2.5	2.2
Pensky-Martens Flash Point	°C	ASTM D7215*	52	**60.3**	70	60

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	250	**271**	1035	1701

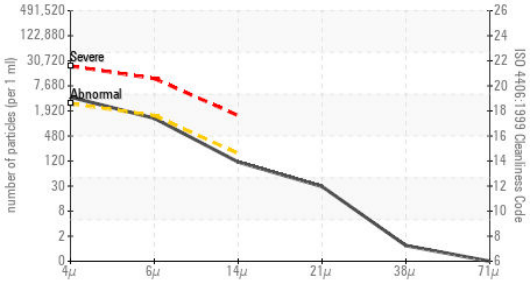
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	**172**	32	154
5% Distillation Point	°C	ASTM D2887*		**197**	---	---
10% Distill Point	°C	ASTM D2887*	201	**207**	205	201
15% Distillation Point	°C	ASTM D2887*		**215**	---	---
20% Distill Point	°C	ASTM D2887*	216	**223**	219	217
30% Distill Point	°C	ASTM D2887*	230	**236**	234	230
40% Distill Point	°C	ASTM D2887*	243	**249**	247	244
50% Distill Point	°C	ASTM D2887*	255	**261**	260	257
60% Distill Point	°C	ASTM D2887*	267	**274**	274	270
70% Distill Point	°C	ASTM D2887*	280	**287**	288	284
80% Distill Point	°C	ASTM D2887*	295	**301**	304	301
85% Distillation Point	°C	ASTM D2887*		**310**	---	---
90% Distill Point	°C	ASTM D2887*	310	**320**	326	322
95% Distillation Point	°C	ASTM D2887*		**335**	---	---
Final Boiling Point	°C	ASTM D2887*	341	**354**	350	346
Distillation Residue	%	ASTM D86(e)*	3.0	**---**	1.0	2.0
Distillation Loss	%	ASTM D86(e)*	3.0	**---**	1.7	0.6

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	37.7	**35**	36.8	33.4
Cetane Index		ASTM D4737*	<40.0	**47**	49.0	43.2

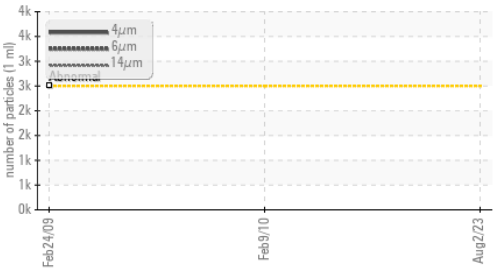
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	<1.0	**<1**	<1	<1
Sodium	ppm	ASTM D5185(m)	<0.1	**0**	1	2
Potassium	ppm	ASTM D5185(m)	<0.1	**<1**	0	0
Water	%	ASTM D6304*	<0.05	**0.003**	0.002	0.001
ppm Water	ppm	ASTM D6304*	<500	**30.1**	23.7	17.6

FUEL REPORT

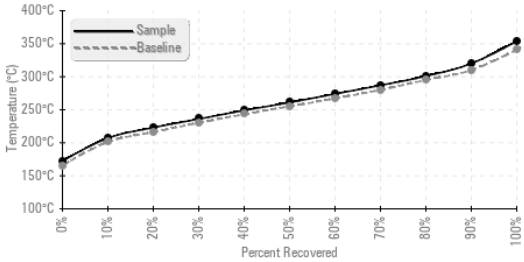
Particle Count



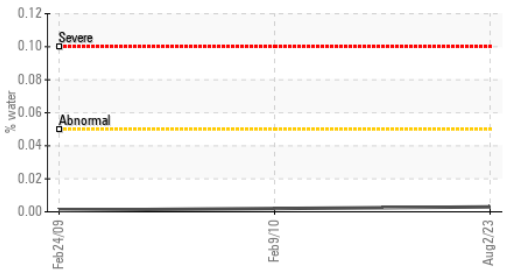
Particle Trend



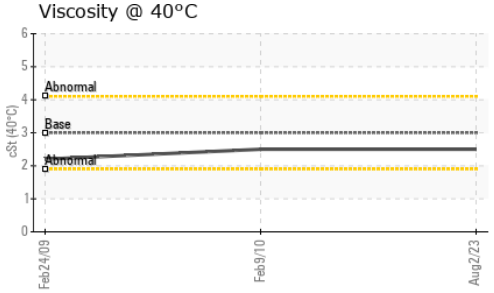
Fuel Distillation Curve



Water

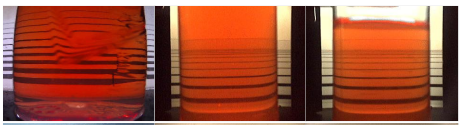
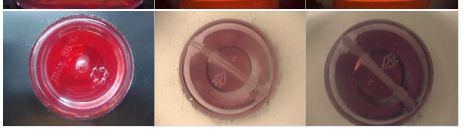


Viscosity @ 40°C



FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	▲ **3597**	---	---
Particles >6µm	ASTM D7647	>1300	**1118**	---	---
Particles >14µm	ASTM D7647	>160	**100**	---	---
Particles >21µm	ASTM D7647	>40	**26**	---	---
Particles >38µm	ASTM D7647	>10	**1**	---	---
Particles >71µm	ASTM D7647	>3	**0**	---	---
Oil Cleanliness	ISO 4406 (c)	>18/17/14	▲ **19/17/14**	---	---

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

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WA0019067 **Received** : 21 Aug 2023
Lab Number : 02577296 **Diagnosed** : 23 Aug 2023
Unique Number : 5630356 **Diagnostician** : Kevin Marson
Test Package : FUEL (Additional Tests: CC Flash, GC-PercFuel, 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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