



OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

2351

Component

Natural Gas Engine

Fluid

VALVOLINE PREMIUM BLUE 9200 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0830081	---	---
Sample Date	Client Info		19 Oct 2023	---	---
Machine Age	kms	Client Info	11551	---	---
Oil Age	kms	Client Info	0	---	---
Oil Changed	Client Info		Changed	---	---
Sample Status			NORMAL	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>50	37	---
Chromium	ppm	ASTM D5185(m)	>4	<1	---
Nickel	ppm	ASTM D5185(m)	>2	<1	---
Titanium	ppm	ASTM D5185(m)		0	---
Silver	ppm	ASTM D5185(m)	>3	<1	---
Aluminum	ppm	ASTM D5185(m)	>9	4	---
Lead	ppm	ASTM D5185(m)	>30	1	---
Copper	ppm	ASTM D5185(m)	>35	16	---
Tin	ppm	ASTM D5185(m)	>4	1	---
Antimony	ppm	ASTM D5185(m)		0	---
Vanadium	ppm	ASTM D5185(m)		0	---
Beryllium	ppm	ASTM D5185(m)		0	---
Cadmium	ppm	ASTM D5185(m)		0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		12	---
Barium	ppm	ASTM D5185(m)		2	---
Molybdenum	ppm	ASTM D5185(m)		94	---
Manganese	ppm	ASTM D5185(m)		14	---
Magnesium	ppm	ASTM D5185(m)		575	---
Calcium	ppm	ASTM D5185(m)		1148	---
Phosphorus	ppm	ASTM D5185(m)		573	---
Zinc	ppm	ASTM D5185(m)		645	---
Sulfur	ppm	ASTM D5185(m)		1828	---
Lithium	ppm	ASTM D5185(m)		<1	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>+100	40	---
Sodium	ppm	ASTM D5185(m)		3	---
Potassium	ppm	ASTM D5185(m)	>20	<1	---

INFRA-RED

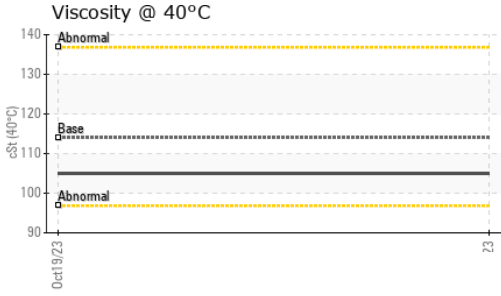
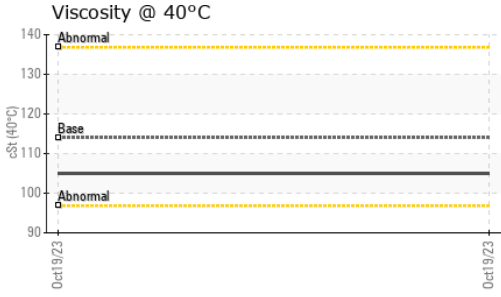
	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		0	---
Nitration	Abs/cm	ASTM D7624*	>20	7.5	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.8	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.4	---



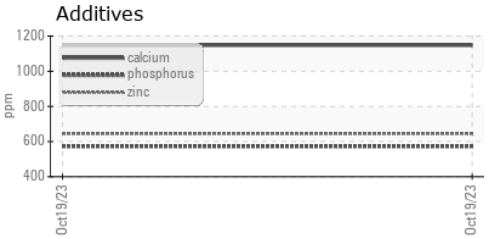
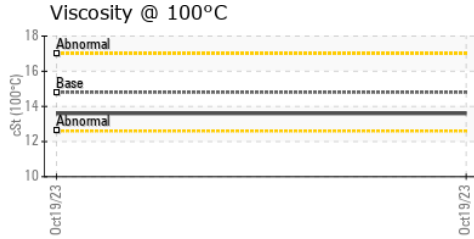
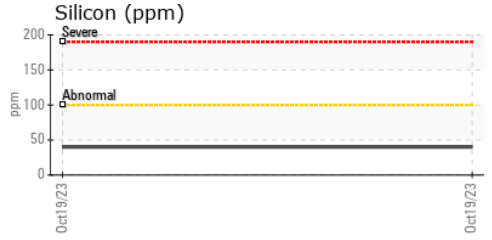
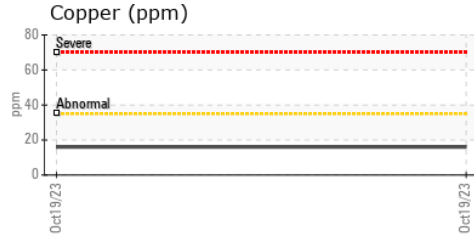
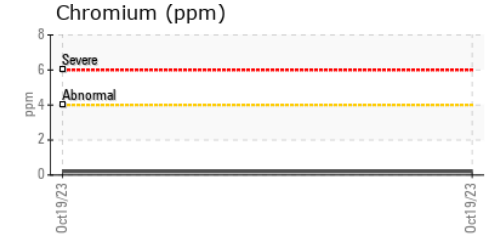
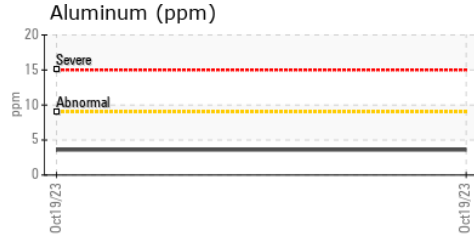
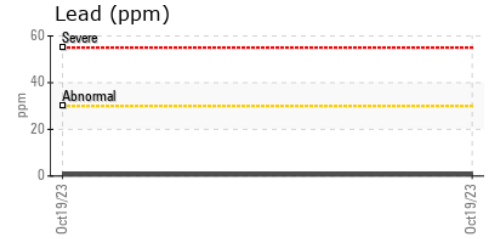
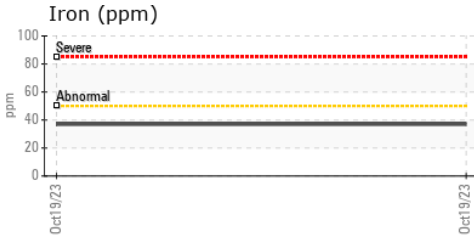
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	VLITE	---
Debris	scalar	Visual*	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.1	NEG	---
Free Water	scalar	Visual*		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	114	105	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.8	13.6	---
Viscosity Index (VI)	Scale	ASTM D2270*	133	128	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0830081 **Received** : 23 Oct 2023
Lab Number : 02590920 **Diagnosed** : 24 Oct 2023
Unique Number : 5667999 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: KV40, VI, Visual)

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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.