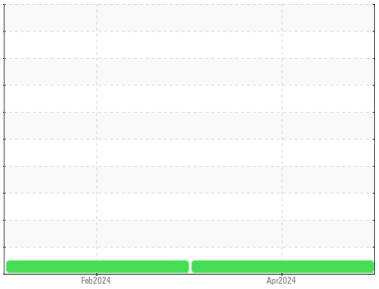
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id
2257
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		**WC0917469**	WC0878151	---
Sample Date		Client Info		**02 Apr 2024**	20 Feb 2024	---
Machine Age	kms	Client Info		**17927**	8165	---
Oil Age	kms	Client Info		**0**	0	---
Oil Changed		Client Info		**Changed**	N/A	---
Sample Status				**NORMAL**	NORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.1	**NEG**	NEG	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>50	**12**	29	---
Chromium	ppm	ASTM D5185(m)	>4	**<1**	<1	---
Nickel	ppm	ASTM D5185(m)	>2	**<1**	<1	---
Titanium	ppm	ASTM D5185(m)		**0**	0	---
Silver	ppm	ASTM D5185(m)	>3	**0**	0	---
Aluminum	ppm	ASTM D5185(m)	>9	**1**	2	---
Lead	ppm	ASTM D5185(m)	>30	**0**	<1	---
Copper	ppm	ASTM D5185(m)	>35	**3**	15	---
Tin	ppm	ASTM D5185(m)	>4	**0**	<1	---
Antimony	ppm	ASTM D5185(m)		**0**	0	---
Vanadium	ppm	ASTM D5185(m)		**0**	0	---
Beryllium	ppm	ASTM D5185(m)		**0**	0	---
Cadmium	ppm	ASTM D5185(m)		**0**	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		**11**	19	---
Barium	ppm	ASTM D5185(m)		**<1**	2	---
Molybdenum	ppm	ASTM D5185(m)		**54**	51	---
Manganese	ppm	ASTM D5185(m)		**<1**	13	---
Magnesium	ppm	ASTM D5185(m)		**826**	751	---
Calcium	ppm	ASTM D5185(m)		**1259**	1193	---
Phosphorus	ppm	ASTM D5185(m)		**661**	654	---
Zinc	ppm	ASTM D5185(m)		**848**	827	---
Sulfur	ppm	ASTM D5185(m)		**1898**	1990	---
Lithium	ppm	ASTM D5185(m)		**<1**	<1	---

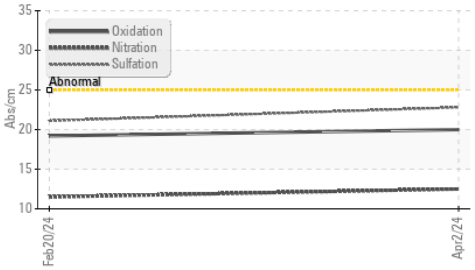
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>+100	**9**	35	---
Sodium	ppm	ASTM D5185(m)		**2**	4	---
Potassium	ppm	ASTM D5185(m)	>20	**<1**	2	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		**0**	0	---
Nitration	Abs/cm	ASTM D7624*	>20	**12.5**	11.5	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	**22.8**	21.1	---

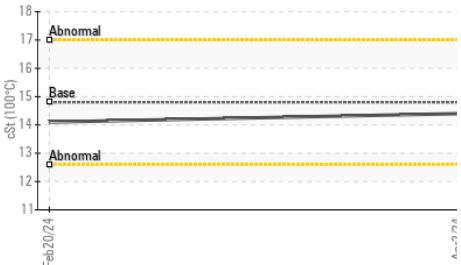
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	**20.0**	19.2	---

OIL ANALYSIS REPORT

FT-IR (Direct Trend)



Viscosity @ 100°C

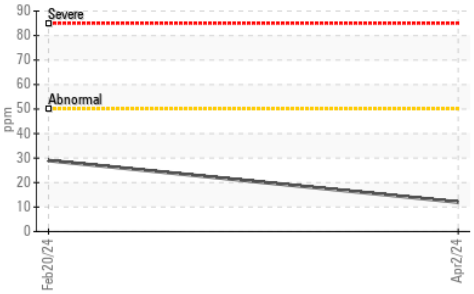


VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.1	**NEG**	NEG	---
Free Water	scalar	Visual*		**NEG**	NEG	---

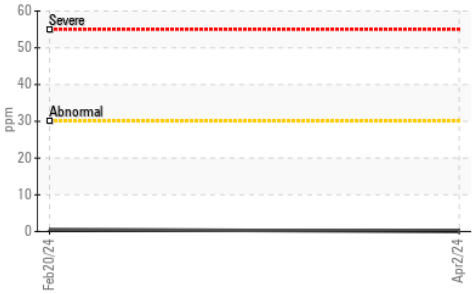
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	14.8	**14.4**	14.1	---

GRAPHS

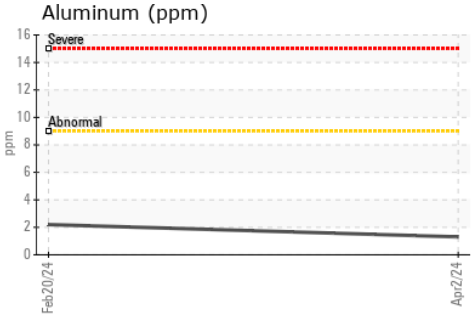
Iron (ppm)



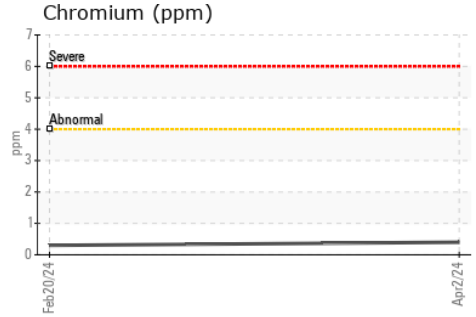
Lead (ppm)



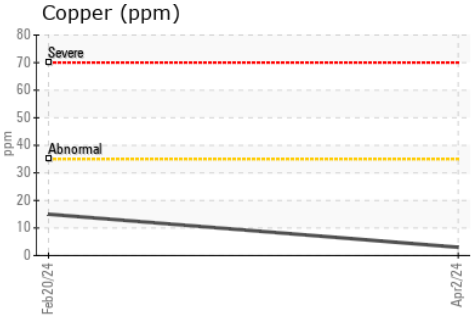
Aluminum (ppm)



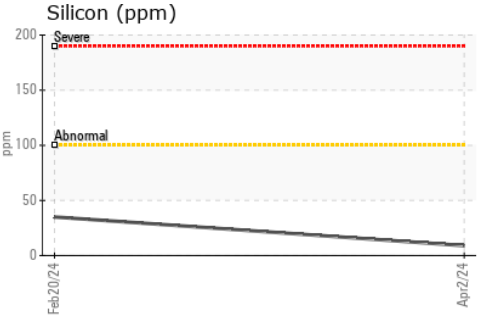
Chromium (ppm)



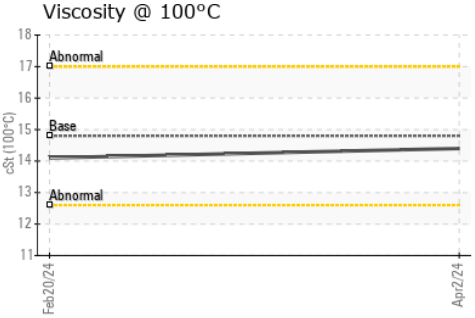
Copper (ppm)



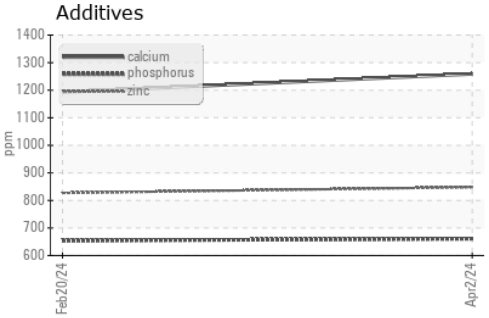
Silicon (ppm)



Viscosity @ 100°C



Additives



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0917469
Lab Number : 02626584
Unique Number : 5759716
Test Package : MOB 1

Received : 04 Apr 2024
Tested : 04 Apr 2024
Diagnosed : 04 Apr 2024 - Wes Davis

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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