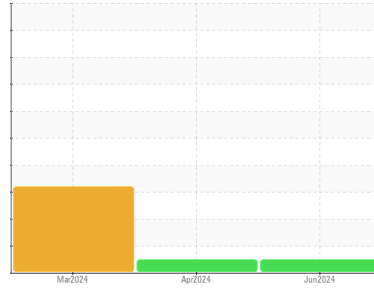




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

2274

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			WC0937263	WC0917653	WC0917399
Sample Date	Client Info			10 Jun 2024	12 Apr 2024	12 Mar 2024
Machine Age	kms	Client Info		29612	17889	11260
Oil Age	kms	Client Info		0	0	0
Oil Changed	Client Info			Changed	N/A	N/A
Sample Status				NORMAL	NORMAL	SEVERE

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method	>0.1		NEG	NEG	NEG
Glycol	WC Method			---	---	0.0

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>50	10	10	43
Chromium	ppm	ASTM D5185(m)	>4	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	2
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>9	<1	1	3
Lead	ppm	ASTM D5185(m)	>30	0	0	1
Copper	ppm	ASTM D5185(m)	>35	1	2	14
Tin	ppm	ASTM D5185(m)	>4	<1	0	<1
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		22	20	19
Barium	ppm	ASTM D5185(m)		0	<1	2
Molybdenum	ppm	ASTM D5185(m)		54	52	55
Manganese	ppm	ASTM D5185(m)		<1	1	13
Magnesium	ppm	ASTM D5185(m)		853	829	825
Calcium	ppm	ASTM D5185(m)		1273	1243	1252
Phosphorus	ppm	ASTM D5185(m)		700	693	739
Zinc	ppm	ASTM D5185(m)		873	847	894
Sulfur	ppm	ASTM D5185(m)		1900	1938	2093
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

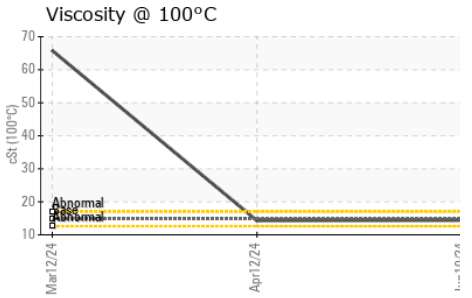
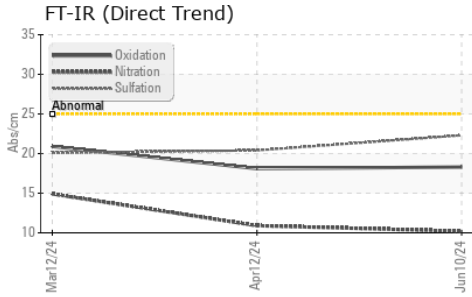
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>+100	4	6	36
Sodium	ppm	ASTM D5185(m)		3	2	8
Potassium	ppm	ASTM D5185(m)	>20	0	<1	3

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	10.2	10.9	14.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.3	20.4	20.1

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	18.3	18.1	20.9



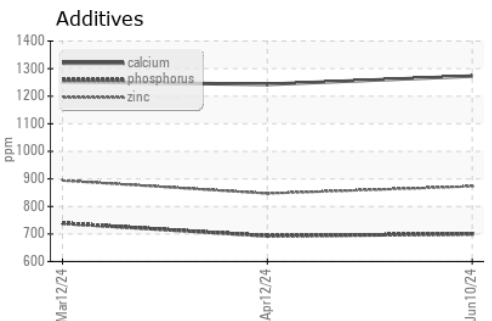
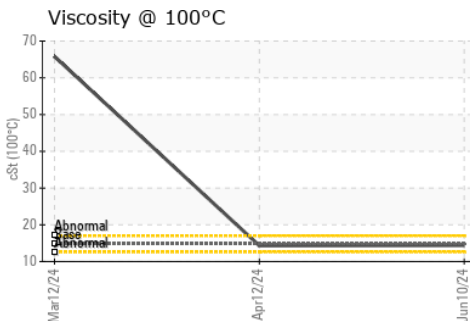
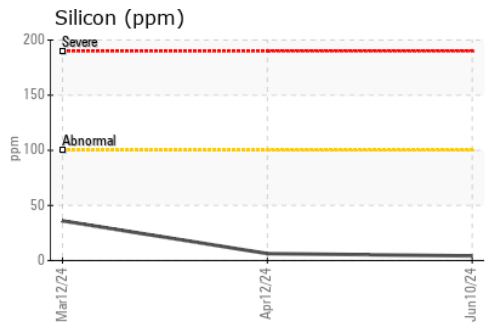
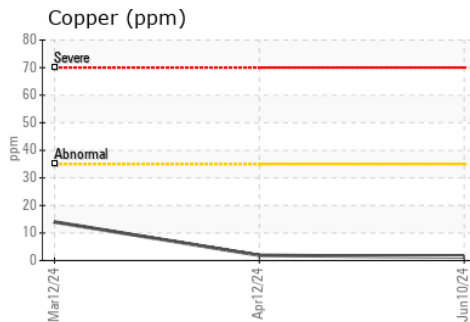
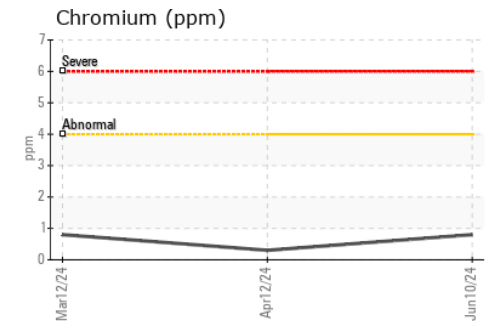
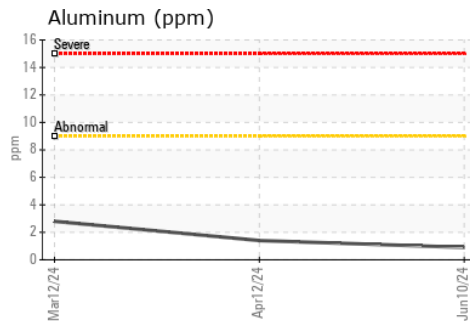
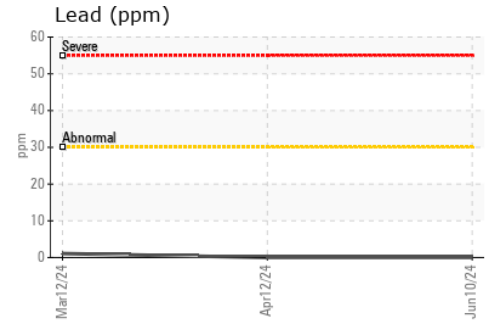
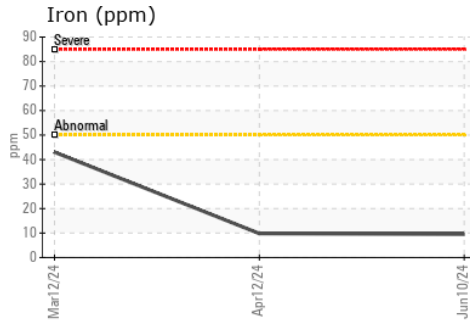
OIL ANALYSIS REPORT



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	14.3

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0937263
Lab Number : 02641323
Unique Number : 5798862
Test Package : MOB 1
Received : 12 Jun 2024
Tested : 12 Jun 2024
Diagnosed : 12 Jun 2024 - Wes Davis

CITY OF HAMILTON
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 Contact: Jeff Parr
 jeff.parr@hamilton.ca
 T: (905)546-2424
 F: (905)679-4502

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.