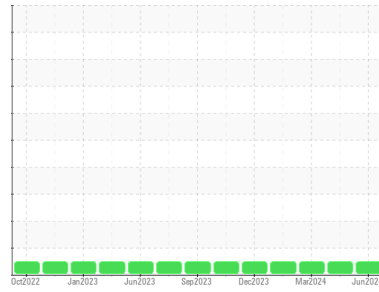




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

2107

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	WC0937150	WC0917432	WC0917600
Sample Date	Client Info	13 Jun 2024	22 Apr 2024	12 Mar 2024
Machine Age	kms Client Info	115114	105143	97607
Oil Age	kms Client Info	0	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		NORMAL	NORMAL	NORMAL

CONTAMINATION

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

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >50	8	8	10
Chromium	ppm ASTM D5185(m) >4	<1	<1	<1
Nickel	ppm ASTM D5185(m) >2	<1	0	<1
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	2
Lead	ppm ASTM D5185(m) >30	0	0	<1
Copper	ppm ASTM D5185(m) >35	<1	<1	1
Tin	ppm ASTM D5185(m) >4	0	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)	19	18	11
Barium	ppm ASTM D5185(m)	0	0	0
Molybdenum	ppm ASTM D5185(m)	54	53	53
Manganese	ppm ASTM D5185(m)	<1	<1	0
Magnesium	ppm ASTM D5185(m)	836	806	782
Calcium	ppm ASTM D5185(m)	1286	1253	1245
Phosphorus	ppm ASTM D5185(m)	708	672	639
Zinc	ppm ASTM D5185(m)	878	855	848
Sulfur	ppm ASTM D5185(m)	1968	1926	2053
Lithium	ppm ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

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

INFRA-RED

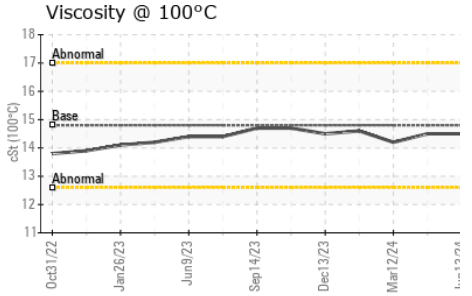
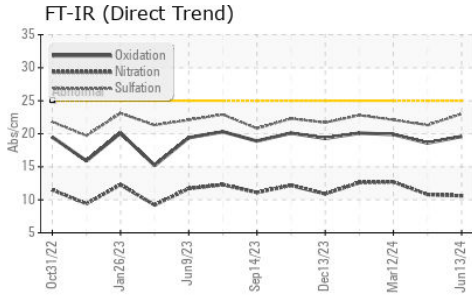
method	limit/base	current	history1	history2
Soot %	% ASTM D7844*	0	0	0
Nitration	Abs/cm ASTM D7624*	10.6	10.8	12.7
Sulfation	Abs/.1mm ASTM D7415*	23.0	21.3	22.1

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm ASTM D7414*	19.6	18.6	19.9



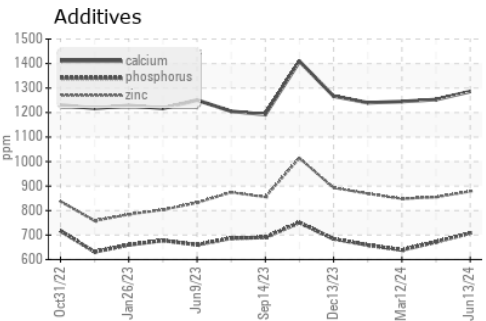
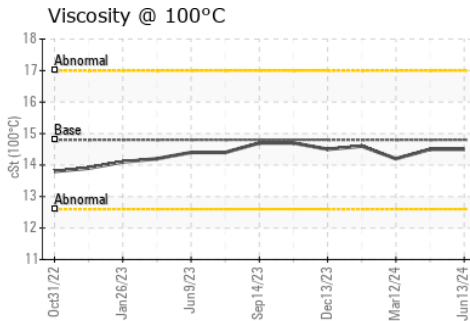
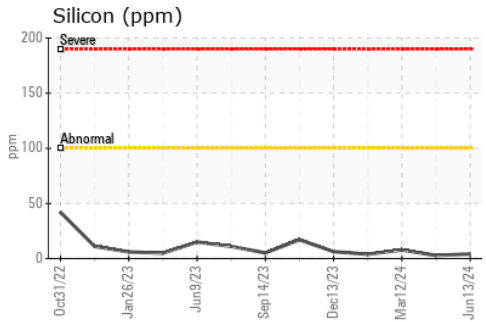
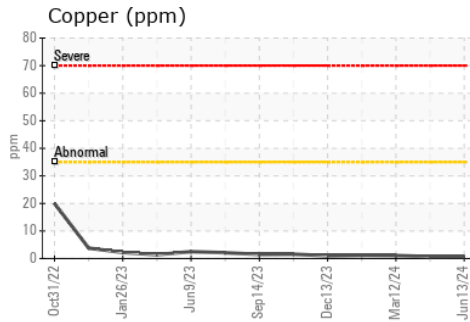
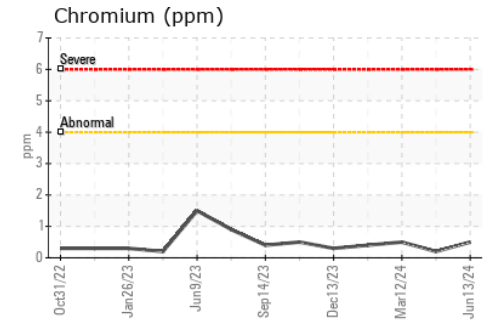
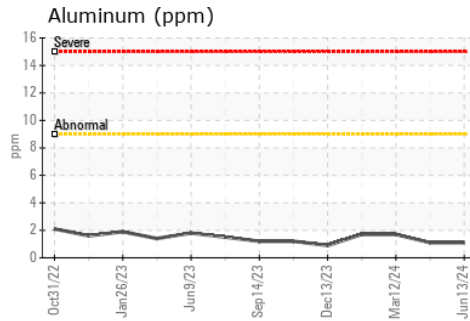
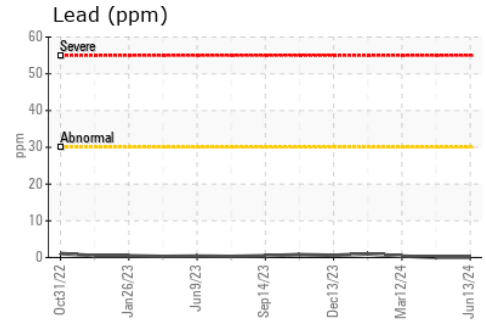
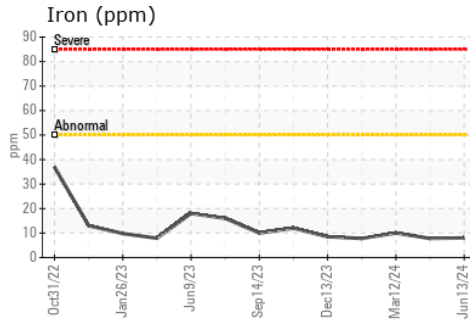
OIL ANALYSIS REPORT



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	14.5	14.2

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0937150
Lab Number : 02642558
Unique Number : 5800097
Test Package : MOB 1
Received : 18 Jun 2024
Tested : 18 Jun 2024
Diagnosed : 18 Jun 2024 - Wes Davis

CITY OF HAMILTON
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 MOUNT HOPE, ON
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 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.