



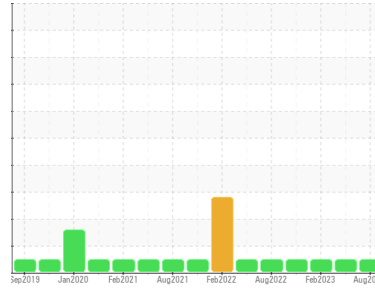
OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
[1486024]
 Machine Id
NEW FLYER 1829
 Component
Natural Gas Engine
 Fluid
VALVOLINE PREMIUM BLUE 9200 15W40 (--- GAL)



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

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		WC0830278	WC0791368	WC0748265
Sample Date	Client Info		21 Aug 2023	17 May 2023	14 Feb 2023
Machine Age	kms	Client Info	0	252603	0
Oil Age	kms	Client Info	0	0	0
Oil Changed	Client Info		Changed	N/A	N/A
Sample Status			NORMAL	NORMAL	NORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >50	21	9	11
Chromium	ppm	ASTM D5185(m) >4	2	<1	<1
Nickel	ppm	ASTM D5185(m) >2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	<1	<1	3
Silver	ppm	ASTM D5185(m) >3	0	0	0
Aluminum	ppm	ASTM D5185(m) >9	2	1	2
Lead	ppm	ASTM D5185(m) >30	4	<1	0
Copper	ppm	ASTM D5185(m) >35	1	<1	<1
Tin	ppm	ASTM D5185(m) >4	2	<1	<1
Antimony	ppm	ASTM D5185(m)	0	<1	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)	7	31	8
Barium	ppm	ASTM D5185(m)	<1	5	0
Molybdenum	ppm	ASTM D5185(m)	55	48	52
Manganese	ppm	ASTM D5185(m)	<1	2	<1
Magnesium	ppm	ASTM D5185(m)	860	779	798
Calcium	ppm	ASTM D5185(m)	1241	1212	1339
Phosphorus	ppm	ASTM D5185(m)	741	735	728
Zinc	ppm	ASTM D5185(m)	876	795	853
Sulfur	ppm	ASTM D5185(m)	1894	1966	1938
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >+100	13	20	7
Sodium	ppm	ASTM D5185(m)	5	7	4
Potassium	ppm	ASTM D5185(m) >20	1	<1	<1

INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	0	0	0
Nitration	Abs/cm	ASTM D7624* >20	13.1	7.8	7.6
Sulfation	Abs/.1mm	ASTM D7415* >30	27.0	20.4	19.1

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414* >25	24.5	17.4	12.8

VISUAL

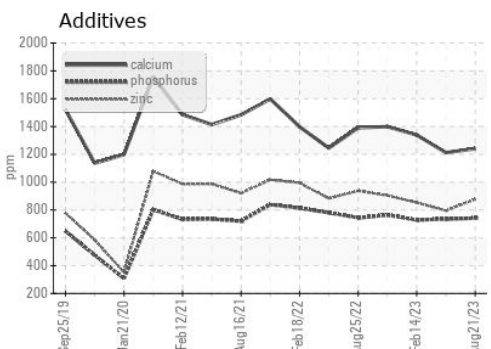
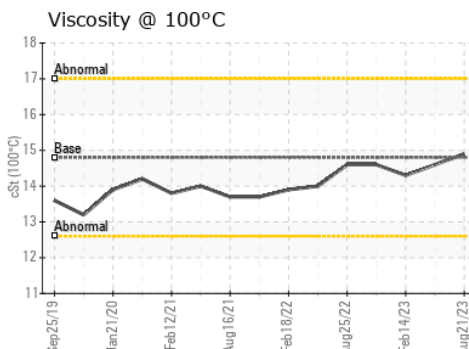
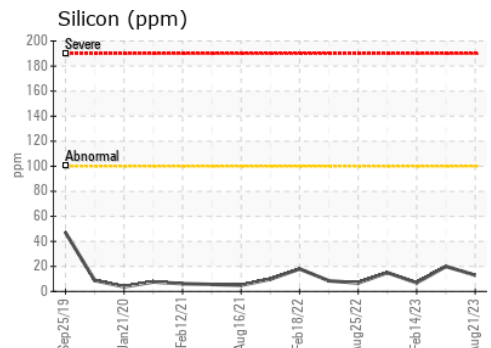
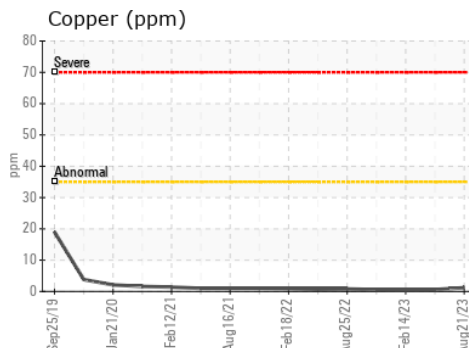
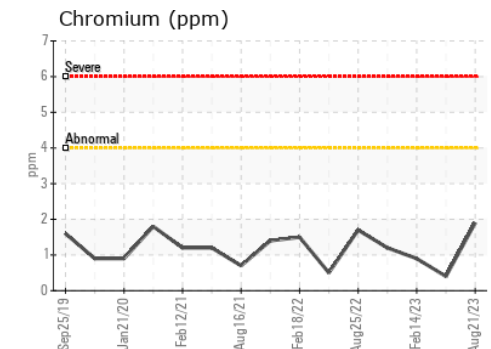
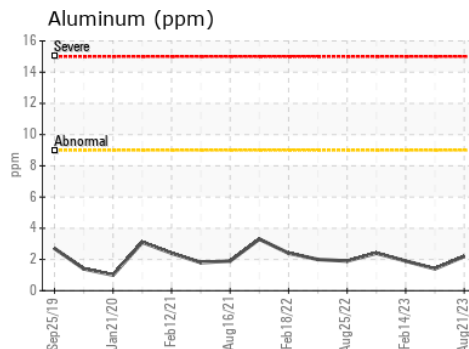
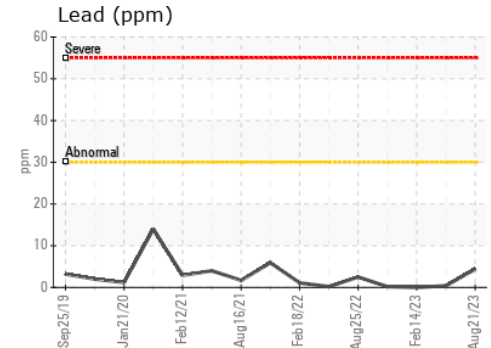
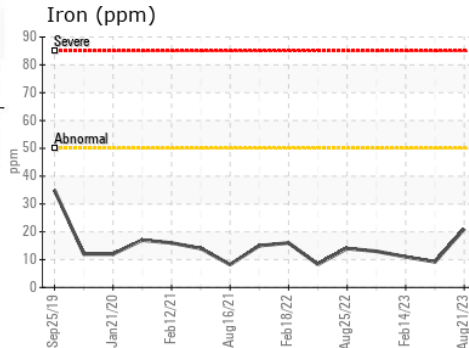
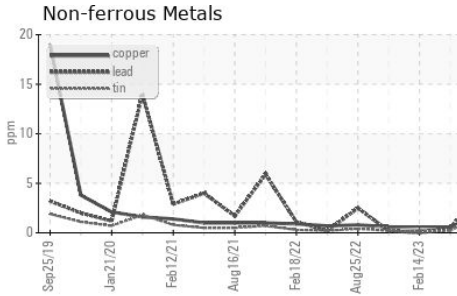
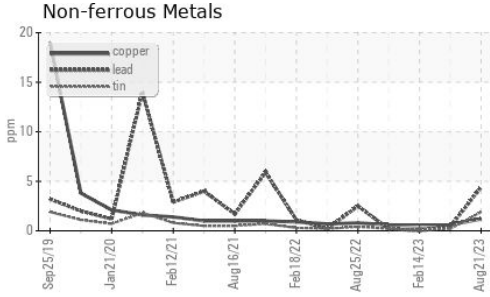
	method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual* >0.1	NEG	NEG	NEG
Free Water	scalar	Visual*	NEG	NEG	NEG



OIL ANALYSIS REPORT

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	14.8	14.9	14.6	14.3

GRAPHS



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0830278
Lab Number : 02577386
Unique Number : 5630446
Test Package : MOB 1

Received : 22 Aug 2023
Diagnosed : 22 Aug 2023
Diagnostician : Kevin Marson

CITY OF HAMILTON
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 MOUNT HOPE, ON
 CA L0R 1W0
 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.