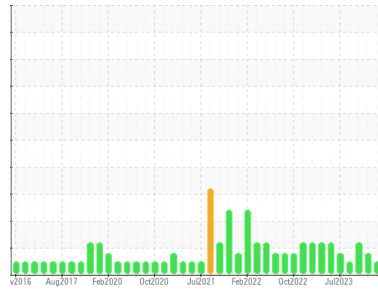




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
NEW FLYER 1109
 Component
Diesel Engine
 Fluid
SAFETY-KLEEN PERFORMANCE PLUS XHD-7 15W40 (--- LTR)

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		WC0917445	WC0937257	WC0877952
Sample Date	Client Info		16 Jul 2024	30 May 2024	29 Nov 2023
Machine Age	kms	Client Info	825091	814935	800199
Oil Age	kms	Client Info	0	0	0
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			NORMAL	MARGINAL	ABNORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<1.0	▲ 1.7	▲ 5.2
Water	WC Method	>0.2	NEG	NEG	NEG
Glycol	WC Method		NEG	0.0	0.0

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>75	35	37	14
Chromium	ppm	ASTM D5185(m)	>5	1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	0	0	0
Titanium	ppm	ASTM D5185(m)	>2	<1	3	0
Silver	ppm	ASTM D5185(m)	>2	<1	0	<1
Aluminum	ppm	ASTM D5185(m)	>15	2	2	<1
Lead	ppm	ASTM D5185(m)	>25	9	8	<1
Copper	ppm	ASTM D5185(m)	>100	313	350	<1
Tin	ppm	ASTM D5185(m)	>4	<1	<1	0
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)		1	1	<1
Barium	ppm	ASTM D5185(m)		1	6	<1
Molybdenum	ppm	ASTM D5185(m)		57	58	58
Manganese	ppm	ASTM D5185(m)		1	3	0
Magnesium	ppm	ASTM D5185(m)		937	959	917
Calcium	ppm	ASTM D5185(m)		1022	1037	979
Phosphorus	ppm	ASTM D5185(m)		933	953	938
Zinc	ppm	ASTM D5185(m)		1194	1178	1127
Sulfur	ppm	ASTM D5185(m)		2139	2294	2318
Lithium	ppm	ASTM D5185(m)		<1	2	<1

CONTAMINANTS

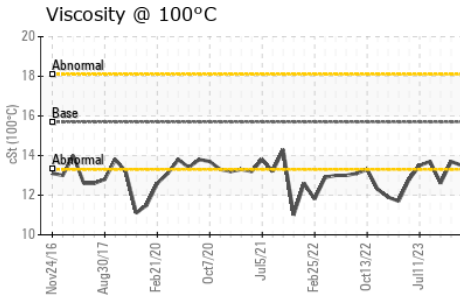
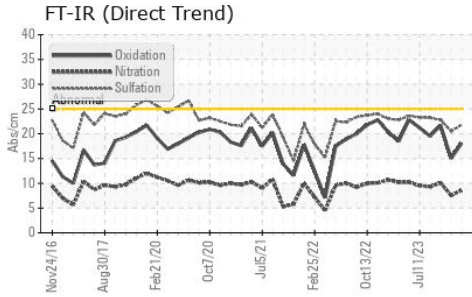
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	8	17	5
Sodium	ppm	ASTM D5185(m)		8	19	14
Potassium	ppm	ASTM D5185(m)	>20	1	1	8

INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>6	0.7	0.4	0.7
Nitration	Abs/cm	ASTM D7624*	>20	8.6	7.5	10.1
Sulfation	Abs./1mm	ASTM D7415*	>30	21.8	20.5	22.8



OIL ANALYSIS REPORT



FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	18.1	15.0 / 21.7

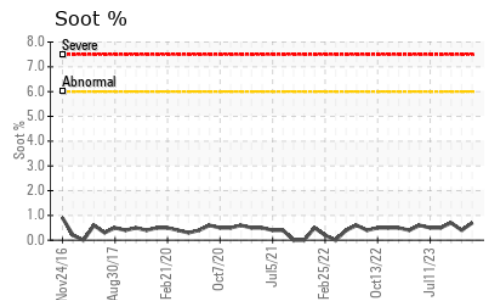
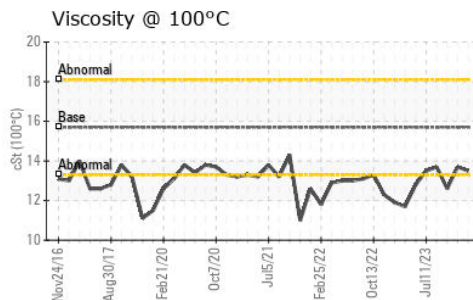
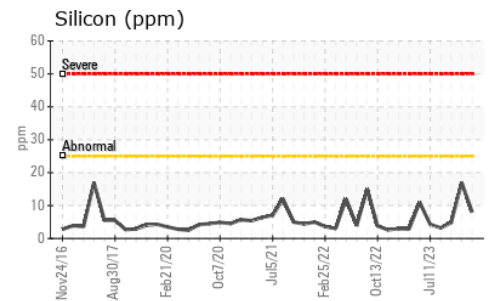
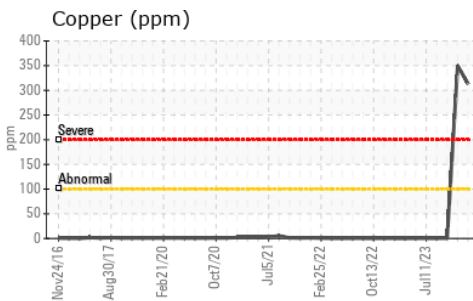
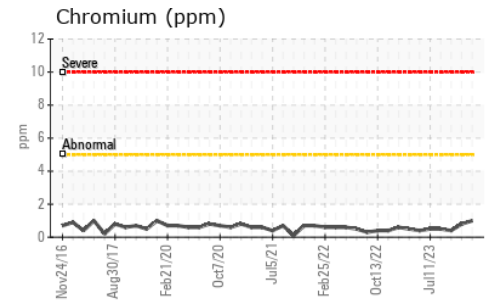
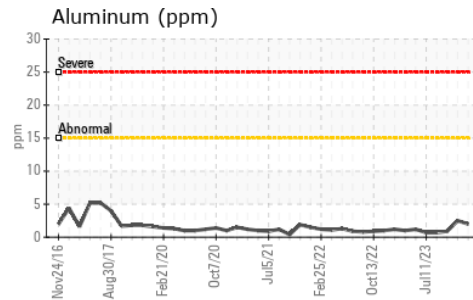
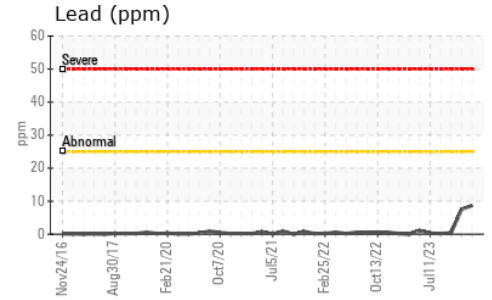
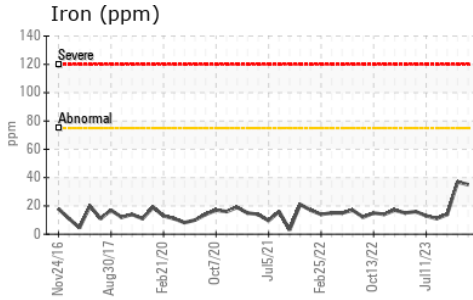
VISUAL

	method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG / NEG
Free Water	scalar	Visual*	NEG	NEG	NEG

FLUID PROPERTIES

	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	15.7	13.5	13.7 / ▲ 12.6

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0917445 **Received** : 19 Jul 2024
Lab Number : 02648873 **Tested** : 19 Jul 2024
Unique Number : 5814425 **Diagnosed** : 19 Jul 2024 - Wes Davis
Test Package : MOB 1

CITY OF HAMILTON
 2200 UPPER JAMES., MOUNTAIN TRANSIT STOREROOM
 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.