

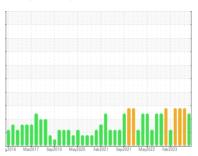
## **OIL ANALYSIS REPORT**



# **NEW FLYER 0903**

Component **Diesel Engine** 

SAFETY-KLEEN PERFORMANCE



Sample Rating Trend



### DIAGNOSIS

#### Recommendation

We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

#### Wear

All component wear rates are normal.

#### Contamination

There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

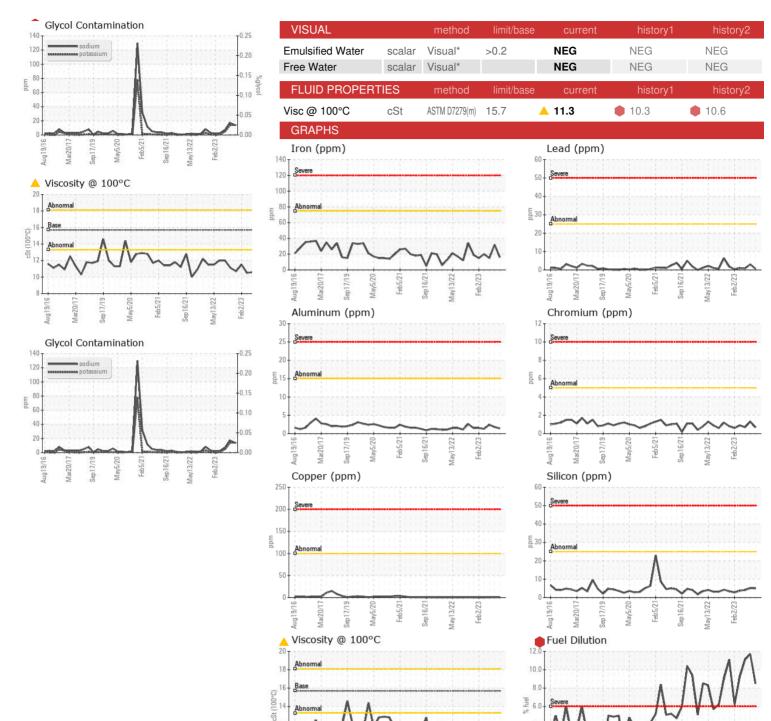
#### ▲ Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

CE PLUS XHD-7 15W40	( GAL)	g2016 Mar20	17 Sep2019 May2020	Feb 2021 Sep 2021 May 2022	Feb 2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0830154	WC0811361	WC0811375
Sample Date		Client Info		06 Aug 2023	26 Jun 2023	09 May 2023
Machine Age	kms	Client Info		0	102868	101714
Oil Age	kms	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	SEVERE	SEVERE
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>75	16	32	15
Chromium	ppm	ASTM D5185(m)	>5	<1	1	<1
Nickel	ppm	ASTM D5185(m)	>4	0	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>15	1	2	2
Lead	ppm	ASTM D5185(m)	>25	<1	3	<1
Copper	ppm	ASTM D5185(m)	>100	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>4	0	<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)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		54	52	54
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)		851	811	857
Calcium	ppm	ASTM D5185(m)		907	856	940
Phosphorus	ppm	ASTM D5185(m)		913	858	970
Zinc	ppm	ASTM D5185(m)		1032	991	1056
Sulfur	ppm	ASTM D5185(m)		2228	2106	2349
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	5	5	4
Sodium	ppm	ASTM D5185(m)		14	17	7
Potassium	ppm	ASTM D5185(m)	>20	14	14	5
Fuel	%	ASTM D7593*	>3.0	<b>8.5</b>	11.7	<b>11.1</b>
Glycol	%	ASTM D7922*		0.0	0.0	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	0.4	0.6	0.4
Nitration	Abs/cm	ASTM D7624*	>20	10.3	12.1	9.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	25.1	28.1	22.5
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	26.3	33.4	22.5



### **OIL ANALYSIS REPORT**







Laboratory Sample No. Lab Number Unique Number

: WC0830154 : 02575644 : 5620695

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received Diagnosed

: 14 Aug 2023 : 15 Aug 2023 Diagnostician : Kevin Marson

0.0

CITY OF HAMILTON 2200 UPPER JAMES,, MOUNTAIN TRANSIT STOREROOM MOUNT HOPE, ON CA LOR 1W0 Contact: Jeff Parr jeff.parr@hamilton.ca

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.

**Test Package**: MOB 1 (Additional Tests: Glycol, PercentFuel)

F: (905)679-4502

T: (905)546-2424