

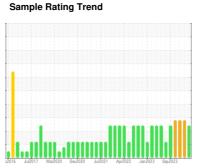
OIL ANALYSIS REPORT



NEW FLYER 1003

Component **Diesel Engine**

SAFETY-KLEEN PERFORMANCE PLUS XHD-7 15W40 (--- GAL)





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.

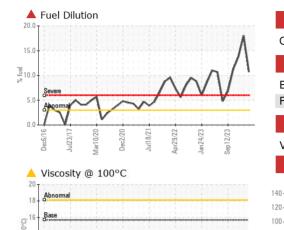
▲ Fluid Condition

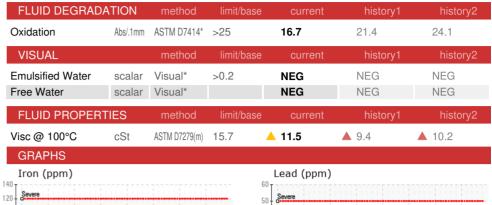
Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

0.1101						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0917602	WC0890966	WC0878115
Sample Date		Client Info		09 Mar 2024	26 Jan 2024	11 Dec 2023
Machine Age	kms	Client Info		1074419	1066511	105038
Oil Age	kms	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	SEVERE	SEVERE
CONTAMINATION	V	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>75	10	21	20
Chromium	ppm	ASTM D5185(m)	>5	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>15	2	2	2
Lead	ppm	ASTM D5185(m)	>25	0	0	<1
Copper	ppm	ASTM D5185(m)	>100	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>4	0	0	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	<1
Molybdenum	ppm	ASTM D5185(m)		53	49	53
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)		863	785	839
Calcium	ppm	ASTM D5185(m)		913	842	903
Phosphorus	ppm	ASTM D5185(m)		915	820	838
Zinc	ppm	ASTM D5185(m)		1072	940	1018
Sulfur	ppm	ASTM D5185(m)		2453	2145	2150
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	3	4	5
Sodium	ppm	ASTM D5185(m)		4	2	3
Potassium	ppm	ASTM D5185(m)	>20	2	<1	0
Fuel	%	ASTM D7593*	>3.0	▲ 10.7	1 8	▲ 13.8
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	0.3	0.6	0.5
Nitration	Abs/cm	ASTM D7624*	>20	8.8	11.5	11.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.8	21.8	22.9



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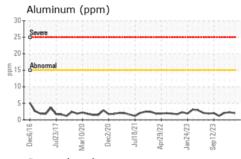


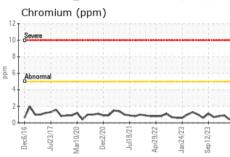
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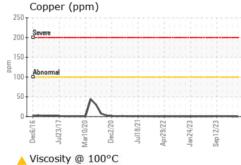
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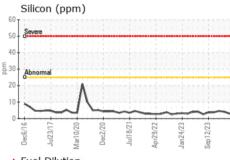
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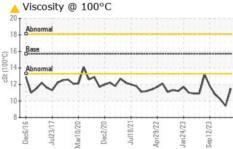
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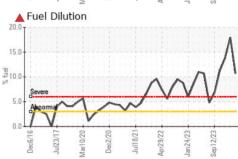














CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: WC0917602 Lab Number : 02621705 Unique Number : 5746824

80

60

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Received **Tested** Diagnosed

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : 13 Mar 2024

: 14 Mar 2024 : 14 Mar 2024 - Wes Davis

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: PercentFuel)

F: (905)679-4502

T: (905)546-2424