

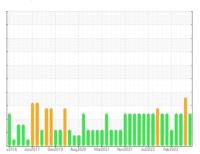
OIL ANALYSIS REPORT



NEW FLYER 0910

Component **Diesel Engine**

SAFETY-KLEEN PERFORMANC



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.

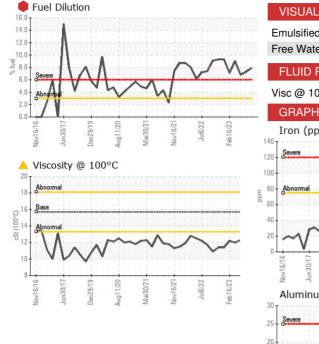
▲ Fluid Condition

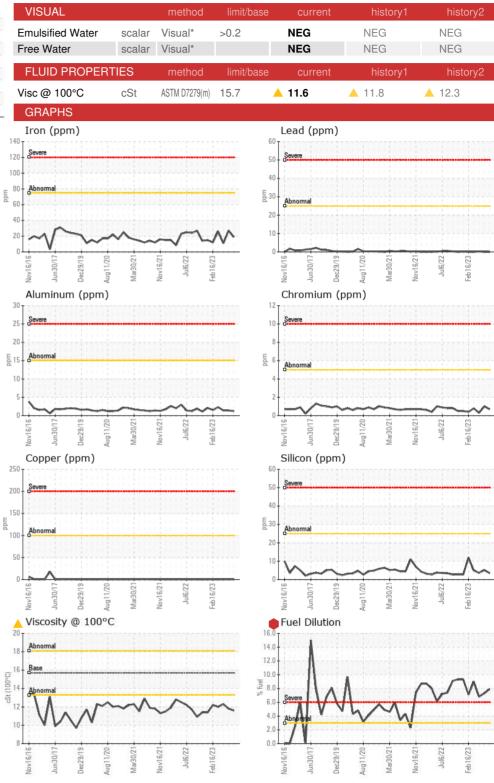
Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The oil is no longer serviceable due to the presence of contaminants.

CE PLUS XHD-7 15W40	(GAL)	v2016 Jun20	117 Dec2019 Aug2020	Mar2021 Nov2021 Jul2022	Feb 2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0830102	WC0811614	WC0791366
Sample Date		Client Info		14 Aug 2023	30 Jun 2023	17 May 2023
Machine Age	kms	Client Info		143973	0	125559
Oil Age	kms	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	SEVERE	SEVERE
CONTAMINATION	N	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>75	19	27	11
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	0
Aluminum	ppm	ASTM D5185(m)	>15	1	1	1
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	<1
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)		52	53	56
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)		860	885	909
Calcium	ppm	ASTM D5185(m)		921	987	1020
Phosphorus	ppm	ASTM D5185(m)		892	966	1036
Zinc	ppm	ASTM D5185(m)		1018	1094	1144
Sulfur	ppm	ASTM D5185(m)		2219	2286	2507
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	4	5	4
Sodium	ppm	ASTM D5185(m)		4	4	2
Potassium	ppm	ASTM D5185(m)	>20	1	1	0
Fuel	%	ASTM D7593*	>3.0	7.9	7.3	6.8
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	0.5	0.5	0.2
Nitration	Abs/cm	ASTM D7624*	>20	11.0	11.6	8.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	26.0	26.9	20.7
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	27.5	▲ 30.0	19.4



OIL ANALYSIS REPORT







CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : WC0830102 : 02576114

: 5629174

Validity of results and interpretation are based on the sample and information as supplied.

Received : 16 Aug 2023 Diagnosed Diagnostician : Kevin Marson

: 17 Aug 2023

Test Package : MOB 1 (Additional Tests: PercentFuel)

CITY OF HAMILTON 2200 UPPER JAMES,, MOUNTAIN TRANSIT STOREROOM MOUNT HOPE, ON CA LOR 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.