

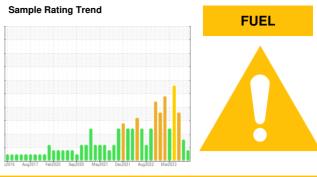
OIL ANALYSIS REPORT



Area [1495083] NEW FLYER 1103

Diesel Engine

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



DIAGNOSIS	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		WC0891138	WC0877911	WC0830158
Ve advise that you check the fuel injection system.	Sample Date		Client Info		28 Dec 2023	04 Nov 2023	05 Aug 2023
he oil change at the time of sampling has been	Machine Age	kms	Client Info		825893	815882	0
noted. We recommend an early resample to nonitor this condition.	Oil Age	kms	Client Info		0	0	0
	Oil Changed		Client Info		Changed	N/A	N/A
Vear Il component wear rates are normal.	Sample Status				ABNORMAL	MARGINAL	ABNORMAL
Contamination	CONTAMINATIO	N	method	limit/base		history1	history2
here is a moderate amount of fuel present in the il. Tests confirm the presence of fuel in the oil.	Water		WC Method		NEG	NEG	NEG
luid Condition	WEAR METALS		method	limit/base	current	history1	history2
The oil is no longer serviceable due to the presence of contaminants.	Iron	ppm	ASTM D5185(m)	>75	38	<u> </u>	10
	Chromium	ppm	ASTM D5185(m)	>5	1	2	<1
	Nickel	ppm	ASTM D5185(m)	>4	<1	<1	0
	Titanium	ppm	ASTM D5185(m)	>2	0	0	0
	Silver	ppm	ASTM D5185(m)	>2	0	<1	0
	Aluminum	ppm	ASTM D5185(m)	>15	3	3	1
	Lead	ppm	ASTM D5185(m)		7	2	0
	Copper	ppm	ASTM D5185(m)	>100	254	34	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)		21	2	3
	Barium	ppm	ASTM D5185(m)		<1	8	0
	Molybdenum	ppm	ASTM D5185(m)		48	57	70
	Manganese	ppm	ASTM D5185(m)		1	6	<1
	Magnesium	ppm	ASTM D5185(m)		780	914	901
	Calcium	ppm	ASTM D5185(m)		1122	1036	934
	Phosphorus	ppm	ASTM D5185(m)		708	980	1010
	Zinc	ppm	ASTM D5185(m)		840	1137	1085
	Sulfur	ppm	ASTM D5185(m)		1846	2431	2384
	Lithium	ppm	ASTM D5185(m)		<1	<1	<1
	CONTAMINANTS		method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185(m)	>25	8	20	9
	Sodium	ppm	ASTM D5185(m)		19	82	1 44
	Potassium	ppm	ASTM D5185(m)		<1	2	A 83
	Fuel	%	ASTM D7593*	>3.0	<u> </u>	1 .9	▲ 5.9
	Glycol	%	ASTM D7922*		0.0	0.0	0.0
	INFRA-RED		method	limit/base		history1	history2
	Soot %	%	ASTM D7844*	>6	0.7	0.5	0.5

Abs/.1mm ASTM D7415* >30

Sulfation

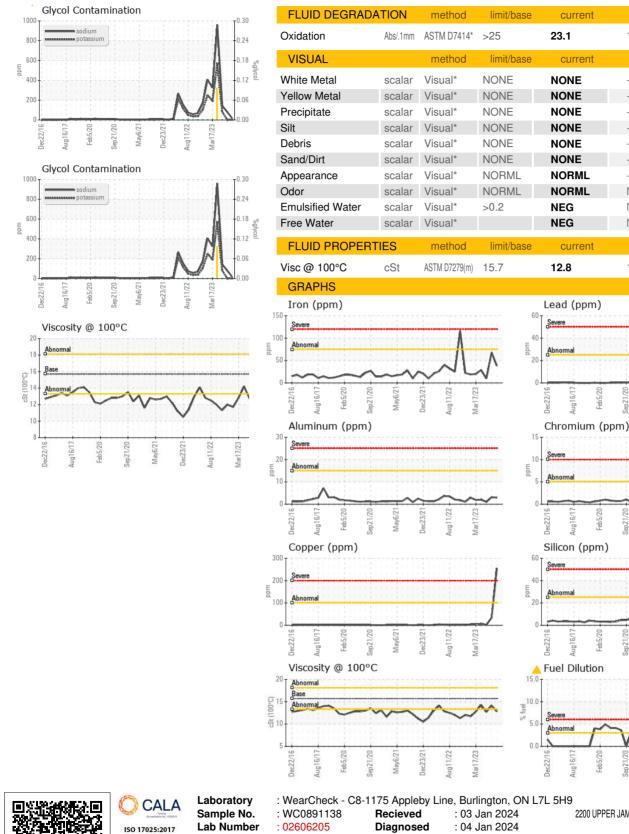
23.1

19.5

22.9



OIL ANALYSIS REPORT



CITY OF HAMILTON 2200 UPPER JAMES,, MOUNTAIN TRANSIT STOREROOM MOUNT HOPE, ON CA LOR 1W0 **Test Package** : MOB 1 (Additional Tests: FuelDilution, Glycol, PercentFuel, Visual) Contact: Jeff Parr jeff.parr@hamilton.ca T: (905)546-2424 F: (905)679-4502

/av6/2 PC73/71

history1

history1

NORML

history1

NEG

NEG

14.1

an21/20

Pup 21/20

Ph5/20

av6/2

14.2

history2

history2

NORML

history2

NEG

NEG

12.7

Aug11/22

Aug11/22

ua11/22

Aug11

Aar17/23

Aar17/23

lec23/71

19.3

Accredited

Laboratory

Unique Number

: 5707291

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.

Diagnostician : Kevin Marson

Contact/Location: Jeff Parr - HAMHAM