

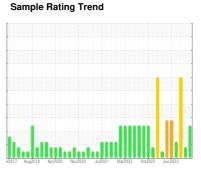
## **OIL ANALYSIS REPORT**



# NEW FLYER 1014

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.

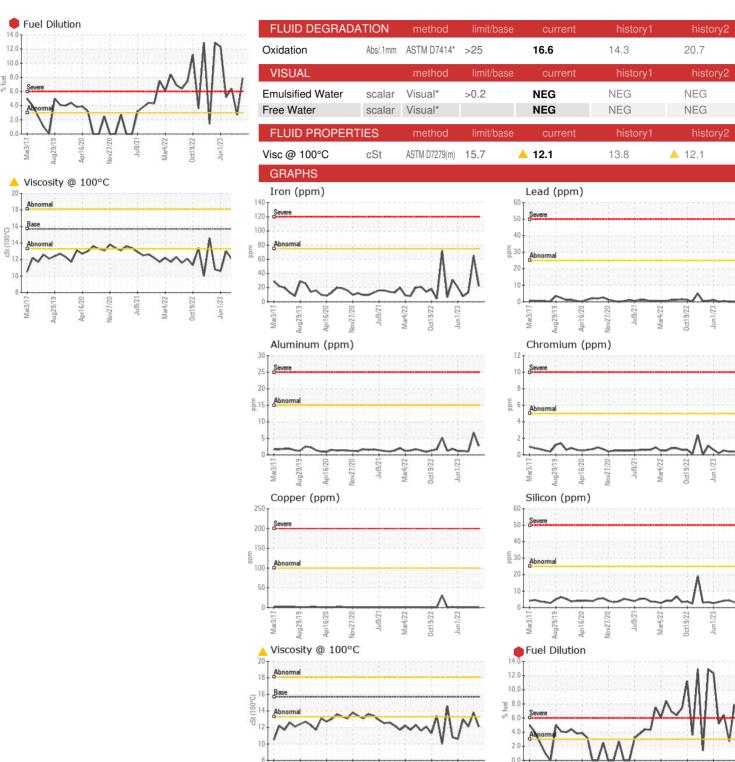
#### ▲ Fluid Condition

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

CE PLUS XHD-7 15W40 ( GAL)						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0890880	WC0877967	WC0849827
Sample Date		Client Info		17 Jan 2024	13 Dec 2023	29 Aug 2023
Machine Age	kms	Client Info		219478	213271	208877
Oil Age	kms	Client Info		0	0	0
Oil Changed		Client Info		N/A	Changed	N/A
Sample Status				SEVERE	MARGINAL	SEVERE
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	0.0	△ 0.036
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>75	22	65	13
Chromium	ppm	ASTM D5185(m)	>5	<1	<1	<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	7	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	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	2
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		56	58	54
Manganese	ppm	ASTM D5185(m)		0	0	<1
Magnesium	ppm	ASTM D5185(m)		907	947	864
Calcium	ppm	ASTM D5185(m)		977	1015	924
Phosphorus	ppm	ASTM D5185(m)		948	977	930
Zinc	ppm	ASTM D5185(m)		1104	1158	1045
Sulfur	ppm	ASTM D5185(m)		2557	2560	2249
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	3	4	4
Sodium	ppm	ASTM D5185(m)		5	13	14
Potassium	ppm	ASTM D5185(m)	>20	3	8	<u> </u>
Fuel	%	ASTM D7593*	>3.0	7.9	▲ 2.7	6.4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	0.4	0.1	0.2
Nitration	Abs/cm	ASTM D7624*	>20	8.5	5.5	9.2
INITIATION	7 100/0111	/IOTIVI DTOLT	/20	0.5	5.5	5.2



### **OIL ANALYSIS REPORT**







Laboratory Sample No. Lab Number Unique Number

: 5711349

: WC0890880 : 02610263

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

: 22 Jan 2024 Diagnosed Diagnostician : Wes Davis

: 24 Jan 2024 Test Package : MOB 1 ( Additional Tests: FUELDILUTION, PercentFuel )

2200 UPPER JAMES,, MOUNTAIN TRANSIT STOREROOM MOUNT HOPE, ON CA LOR 1W0 Contact: Jeff Parr jeff.parr@hamilton.ca T: (905)546-2424

CITY OF HAMILTON

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.

F: (905)679-4502