

## **OIL ANALYSIS REPORT**

Sample Rating Trend

## FUEL

DIAGNOSIS

Recommendation

condition. Wear

Contamination

Fluid Condition

presence of contaminants.

NEW FLYER 1012 Component Diesel Engine

Machine Id

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

All component wear rates are normal.

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

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

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

SAMPLE INFORM	<b>IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0937165	WC0917552	WC0917599
Sample Date		Client Info		18 Jun 2024	27 Apr 2024	14 Mar 202
Machine Age	kms	Client Info		1082117	1071194	1061541
Oil Age	kms	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	SEVERE	SEVERE
CONTAMINATIO	N	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	29	22	17
Chromium	ppm	ASTM D5185(m)	>5	1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	0	<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	2	1	2
Lead	ppm	ASTM D5185(m)	>25	<1	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)		4	<1	<1
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		57	58	60
Manganese	ppm	ASTM D5185(m)		<1	<1	0
Magnesium	ppm	ASTM D5185(m)		903	944	943
Calcium	ppm	ASTM D5185(m)		1010	981	1010
Phosphorus	ppm	ASTM D5185(m)		892	931	971
Zinc	ppm	ASTM D5185(m)		1141	1136	1137
Sulfur	ppm	ASTM D5185(m)		2171	2218	2490
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
		/10/111/20/00(11)				
CONTAMINANTS	· · ·	method	limit/base	current	history1	history2
CONTAMINANTS Silicon	ppm		limit/base >25			history2 4
		method		current	history1	-
Silicon	ppm	method ASTM D5185(m)		current 5	history1 3	4
Silicon Sodium Potassium	ppm ppm	method ASTM D5185(m) ASTM D5185(m)	>25	current 5 10	history1 3 8	4
Silicon Sodium	ppm ppm ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>25 >20	current 5 10 5	history1 3 8 4	4 6 4 ▲ 6.8
Silicon Sodium Potassium Fuel	ppm ppm ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D7593*	>25 >20 >3.0	Current 5 10 5 ▲ 7.4	history1 3 8 4 ▲ 6.5	4 6 4 ▲ 6.8
Silicon Sodium Potassium Fuel INFRA-RED	ppm ppm %	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D7593* method	>25 >20 >3.0 limit/base	current           5           10           5           7.4           current	history1 3 8 4 ▲ 6.5 history1	6 4 ▲ 6.8 history2



## **OIL ANALYSIS REPORT**

Abs/.1mm

>25

ASTM D7414\*

29.3

NEG

NEG

88.2

12.4

136

23.5

NEG

NEG

12.9

21.6

NEG

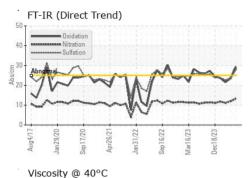
NEG

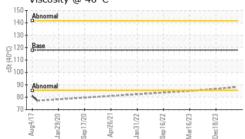
12.8

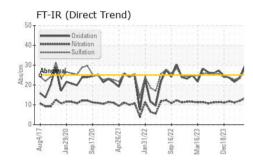
history?

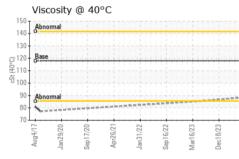
FLUID DEGRADATION

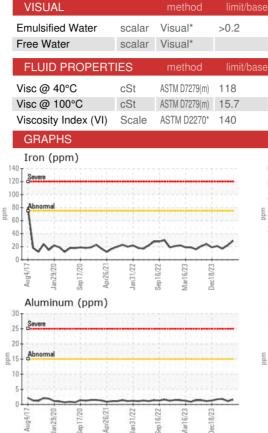
Oxidation

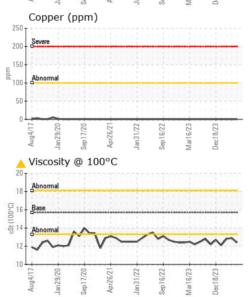


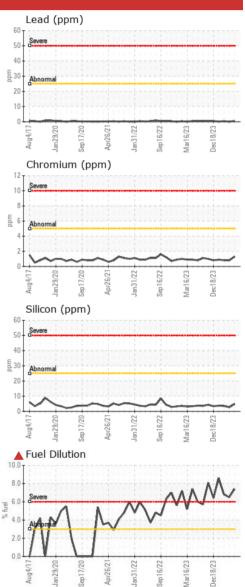












Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **CITY OF HAMILTON** CALA Sample No. : WC0937165 Received : 21 Jun 2024 2200 UPPER JAMES,, MOUNTAIN TRANSIT STOREROOM Lab Number : 02643344 Tested : 24 Jun 2024 MOUNT HOPE, ON ISO 17025:2017 Accredited Unique Number : 5800883 Diagnosed : 24 Jun 2024 - Kevin Marson CA LOR 1W0 Laboratory Test Package : MOB 1 (Additional Tests: KV40, PercentFuel, VI) Contact: Jeff Parr To discuss this sample report, contact Customer Service at 1-800-268-2131. jeff.parr@hamilton.ca Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: (905)546-2424 Validity of results and interpretation are based on the sample and information as supplied. F: (905)679-4502

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Contact/Location: Jeff Parr - HAMHAM

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