

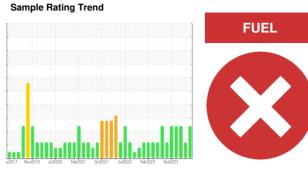
# **OIL ANALYSIS REPORT**



Machine Id **NEW FLYER 1008** 

**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.

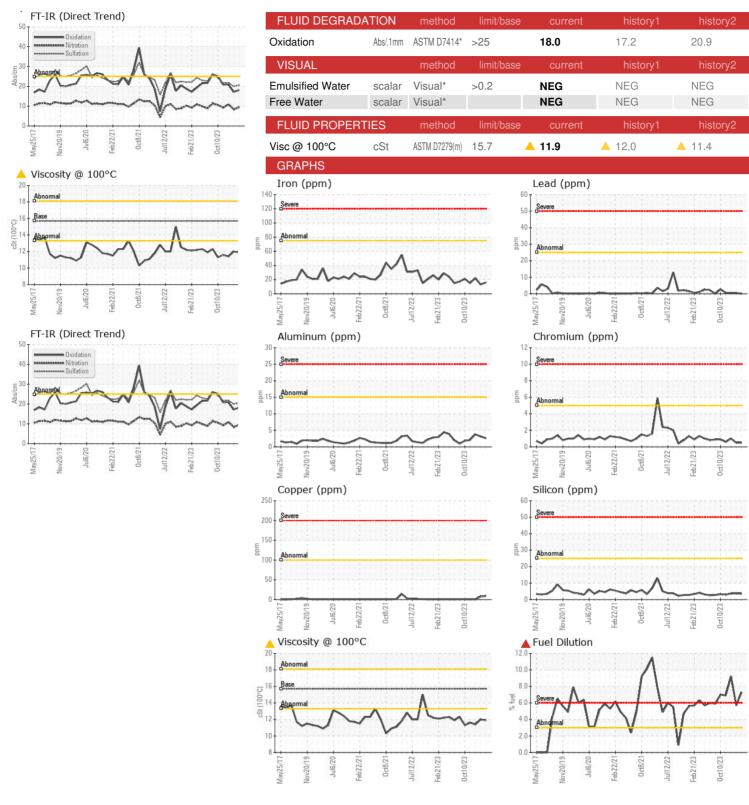
#### Fluid Condition

The oil is no longer serviceable due to the presence of contaminants.

E PLUS AND-7 ISW40	( •)		19 Jul2020 F602021			
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0917471	WC0878087	WC0891011
Sample Date		Client Info		05 Apr 2024	29 Feb 2024	14 Jan 2024
Machine Age	kms	Client Info		1074495	1066300	1058511
Oil Age	kms	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	ABNORMAL	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	16	13	22
Chromium	ppm	ASTM D5185(m)	>5	<1	<1	1
Nickel	ppm	ASTM D5185(m)	>4	0	<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	3	3	4
Lead	ppm	ASTM D5185(m)	>25	0	<1	<1
Copper	ppm	ASTM D5185(m)	>100	10	7	<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	0
Molybdenum	ppm	ASTM D5185(m)		54	55	55
Manganese	ppm	ASTM D5185(m)		<1	0	0
Magnesium	ppm	ASTM D5185(m)		898	907	890
Calcium	ppm	ASTM D5185(m)		958	972	954
Phosphorus	ppm	ASTM D5185(m)		917	966	927
Zinc	ppm	ASTM D5185(m)		1109	1100	1073
Sulfur	ppm	ASTM D5185(m)		2355	2575	2443
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	4	4	4
Sodium	ppm	ASTM D5185(m)		1	<1	1
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Fuel	%	ASTM D7593*	>3.0	<b>▲</b> 7.3	▲ 5.7	<b>▲</b> 9.2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	0.4	0.2	0.5
Nitration	Abs/cm	ASTM D7624*	>20	9.4	8.4	10.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.6	20.0	21.7



## **OIL ANALYSIS REPORT**





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

Lab Number : 02627657 Unique Number : 5760789

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : WC0917471

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

Received : 09 Apr 2024 **Tested** : 10 Apr 2024 Diagnosed

: 10 Apr 2024 - Wes Davis

Test Package : MOB 1 ( Additional Tests: PercentFuel ) 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.

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**CITY OF HAMILTON** 

MOUNT HOPE, ON

Contact: Jeff Parr

CA LOR 1W0

Report Id: HAMHAM [WCAMIS] 02627657 (Generated: 04/10/2024 09:29:56) Rev: 1

Contact/Location: Jeff Parr - HAMHAM

2200 UPPER JAMES,, MOUNTAIN TRANSIT STOREROOM