

# **OIL ANALYSIS REPORT**

Sample Rating Trend FUEL

#### Machine Id NEW FLYER 1111 Component

Diesel Engine

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

SAMPLE INFORM	<b>IATION</b>	method	limit/base	current	history1	history
Sample Number		Client Info		WC0891059	WC0878122	WC083020
Sample Date		Client Info		17 Jan 2024	07 Dec 2023	16 Oct 202
Machine Age	kms	Client Info		798982	0	781048
Oil Age	kms	Client Info		0	0	0
Oil Changed		Client Info		Changed	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	NORMAL
CONTAMINATION	٧	method	limit/base	current	history1	history
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history
Iron	ppm	ASTM D5185(m)	>75	15	15	18
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	<1
Aluminum	ppm	ASTM D5185(m)	>15	2	2	2
Lead	ppm	ASTM D5185(m)	>25	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>100	<1	1	2
Tin	ppm	ASTM D5185(m)	>4	0	0	<1
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	history
Boron	ppm	ASTM D5185(m)		<1	<1	<1
Barium	ppm	ASTM D5185(m)		0	<1	<1
Molybdenum	ppm	ASTM D5185(m)		58	60	59
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)		945	943	955
Calcium	ppm	ASTM D5185(m)		1022	1024	1041
Phosphorus	ppm	ASTM D5185(m)		977	929	981
Zinc	ppm	ASTM D5185(m)		1151	1166	1183
Sulfur	ppm	ASTM D5185(m)		2602	2413	2420
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history
Silicon	ppm	ASTM D5185(m)	>25	4	4	3
Sodium	ppm	ASTM D5185(m)		2	1	1
Potassium	ppm	ASTM D5185(m)	>20	<1	0	0
Fuel	%	ASTM D7593*	>3.0	<mark>▲</mark> 4.1	<mark>▲</mark> 3	<1.0
INFRA-RED		method	limit/base	current	history1	history
Soot %	%	ASTM D7844*	>6	0.8	0.8	1
Nitration	Abs/cm	ASTM D7624*	>20	8.5	8.5	8.7

# DIAGNOSIS

## Recommendation

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

### Wear

All component wear rates are normal.

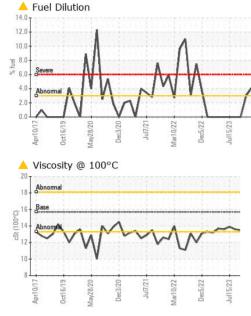
### Contamination

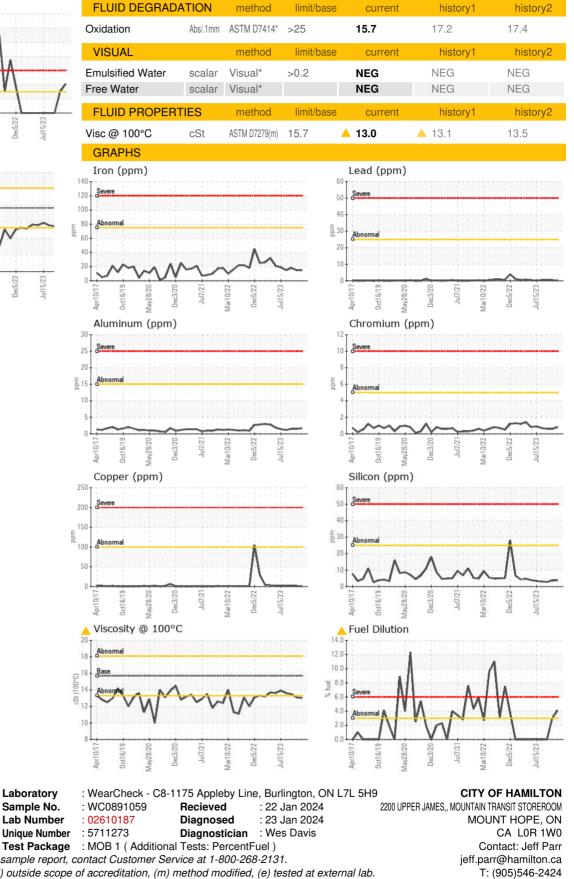
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

### Fluid Condition

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

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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.

CALA

ISO 17025:2017 Accredited Laboratory

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Laboratory

Sample No.

F: (905)679-4502