

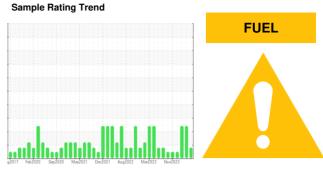
OIL ANALYSIS REPORT



Machine Id **NEW FLYER 1013**

Diesel Engine

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



DIAGNOSIS

Recommendation

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

Fluid Condition

The oil viscosity is lower than typical, possibly indicating the addition of lighter grade oil. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORM	IATION	mothod	limit/bass	Ol : Wood	historya	biotow.0
	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0937127	WC0937295	WC0917619
Sample Date		Client Info		08 Jul 2024	19 May 2024	27 Mar 2024
Machine Age	kms	Client Info		865385	85481	844987
Oil Age	kms	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	SEVERE	SEVERE
CONTAMINATION	1	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
ron	ppm	ASTM D5185(m)	>75	30	22	13
Chromium	ppm	ASTM D5185(m)	>5	1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	0	0
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>15	2	1	1
Lead	ppm	ASTM D5185(m)	>25	<1	0	0
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	2	25
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		57	54	46
Manganese	ppm	ASTM D5185(m)		<1	<1	0
Magnesium	ppm	ASTM D5185(m)		916	888	760
Calcium	ppm	ASTM D5185(m)		997	964	1095
Phosphorus	ppm	ASTM D5185(m)		925	870	654
Zinc	ppm	ASTM D5185(m)		1170	1064	782
Sulfur	ppm	ASTM D5185(m)		2289	2138	1741
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	6	4	5
Sodium	ppm	ASTM D5185(m)		4	3	3
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Fuel	%	ASTM D7593*	>3.0	4.4	▲ 8.5	▲ 8.2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	0.9	0.7	0.4
Soot % Nitration	% Abs/cm	ASTM D7844* ASTM D7624*	>6 >20	0.9 12.0	0.7 11.6	0.4 11.1



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CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

Lab Number : 02647277 Unique Number : 5812829

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

: WC0937127

Received **Tested**

Diagnosed

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

CITY OF HAMILTON

2200 UPPER JAMES,, MOUNTAIN TRANSIT STOREROOM MOUNT HOPE, ON

CA LOR 1W0 Contact: Jeff Parr

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: 15 Jul 2024 - Kevin Marson

: 11 Jul 2024

: 12 Jul 2024

Contact/Location: Jeff Parr - HAMHAM