

OIL ANALYSIS REPORT

Sample Rating Trend

FUEL

X



Machine Id NEW FLYER 1012 Component

Diesel Engine

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

E PLUS XHD-7 15W40	(GAL)	2017 Oct201	9 Jun2020 Jan2021	OctŽ021 Junž022 Janž023	Sep2023	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0917599	WC0890933	WC0878178
Sample Date		Client Info		14 Mar 2024	31 Jan 2024	18 Dec 2023
Machine Age	kms	Client Info		1061541	1053010	1043455
Oil Age	kms	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	SEVERE	SEVERE
CONTAMINATION	١	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	17	21	19
Chromium	ppm	ASTM D5185(m)	>5	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	<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	2	2	1
Lead	ppm	ASTM D5185(m)	>25	<1	<1	<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	<1
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		60	57	57
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)		943	918	918
Calcium	ppm	ASTM D5185(m)		1010	1006	1005
Phosphorus	ppm	ASTM D5185(m)		971	924	928
Zinc	ppm	ASTM D5185(m)		1137	1121	1118
Sulfur	ppm	ASTM D5185(m)		2490	2385	2394
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	4	4	3
Sodium	ppm	ASTM D5185(m)		6	6	5
Potassium	ppm	ASTM D5185(m)	>20	4	3	3
Fuel	%	ASTM D7593*	>3.0	▲ 6.8	▲ 8.6	6 .4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	0.7	0.7	0.6
Nitration	Abs/cm	ASTM D7624*	>20	11.1	11.8	11.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.6	23.9	23.8

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

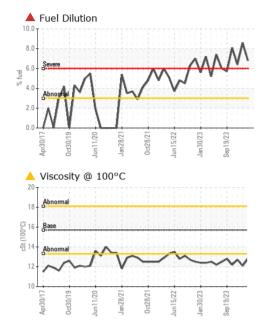
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

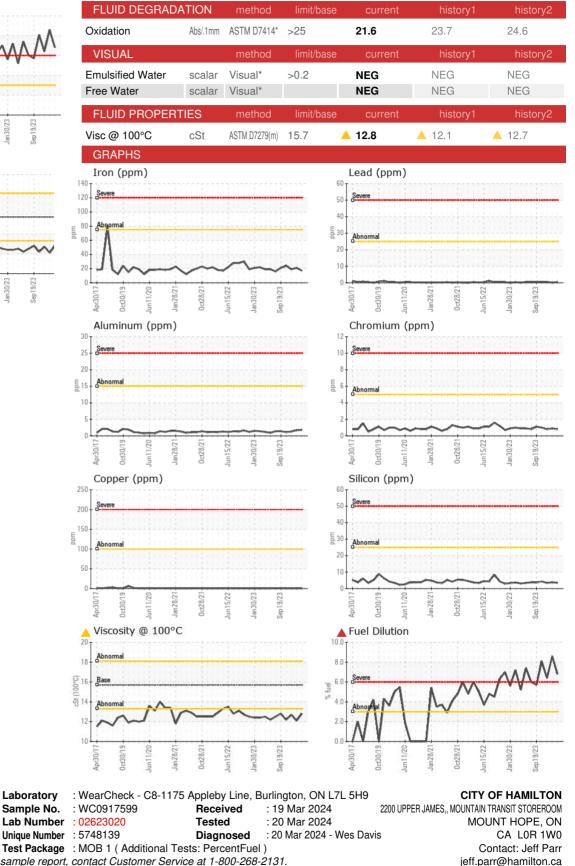
Fluid Condition

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



OIL ANALYSIS REPORT





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.

Contact/Location: Jeff Parr - HAMHAM

T: (905)546-2424

F: (905)679-4502



Report Id: HAMHAM [WCAMIS] 02623020 (Generated: 03/20/2024 09:37:23) Rev: 1

CALA

ISO 17025:2017 Accredited

Laboratory

Laboratory

Sample No.