

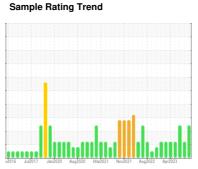
OIL ANALYSIS REPORT



NEW FLYER 1008

Component **Diesel Engine**

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





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.

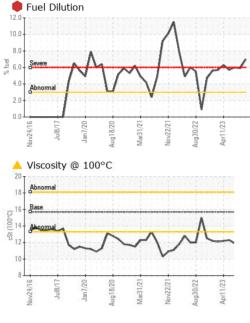
Fluid Condition

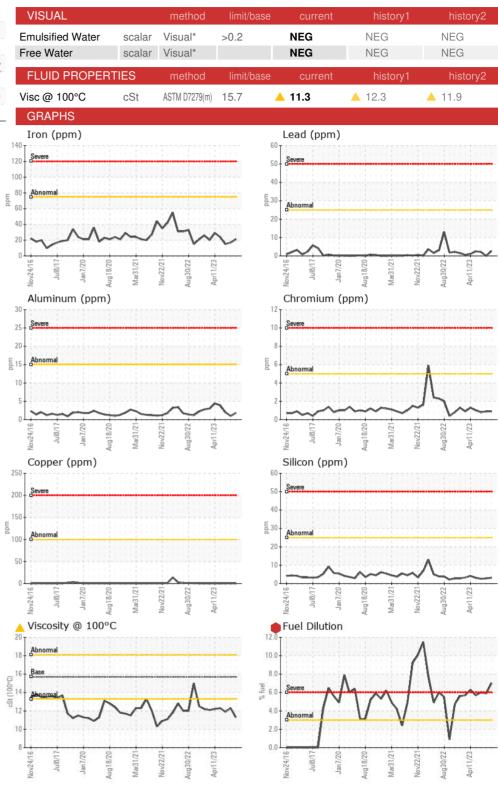
Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

CE PLUS XHD-7 15W40	(GAL)	v2016 Jul20	17 Jan2020 Aug2020	Mar2021 Nov2021 Aug2022	Apr2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0849704	WC0830214	WC0830353
Sample Date		Client Info		10 Oct 2023	21 Aug 2023	07 Jul 2023
Machine Age	kms	Client Info		1040825	103051	0
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
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>75	21	17	15
Chromium	ppm	ASTM D5185(m)	>5	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	0	0	0
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	<1	<1	0
Aluminum	ppm	ASTM D5185(m)	>15	2	1	2
Lead	ppm	ASTM D5185(m)	>25	3	0	2
Copper	ppm	ASTM D5185(m)	>100	<1	<1	<1
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	history2
Boron	ppm	ASTM D5185(m)		1	1	<1
Barium	ppm	ASTM D5185(m)		<1	0	0
Molybdenum	ppm	ASTM D5185(m)		53	56	56
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		843	907	922
Calcium	ppm	ASTM D5185(m)		921	972	971
Phosphorus	ppm	ASTM D5185(m)		833	932	1016
Zinc	ppm	ASTM D5185(m)		1034	1073	1150
Sulfur	ppm	ASTM D5185(m)		2163	2332	2397
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS	8	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	3	3	3
Sodium	ppm	ASTM D5185(m)		2	6	2
Potassium	ppm	ASTM D5185(m)	>20	0	3	<1
Fuel	%	ASTM D7593*	>3.0	7	▲ 5.9	• 6
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	0.6	0.7	0.4
Nitration	Abs/cm	ASTM D7624*	>20	10.6	11.3	8.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.2	25.9	22.6
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	25.1	26.0	21.7



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CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number **Unique Number**

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : WC0849704 : 02588525

To discuss this sample report, contact Customer Service at 1-800-268-2131.

Received Diagnosed : 5657591

: 12 Oct 2023 : 13 Oct 2023 Diagnostician : Kevin Marson Test Package : MOB 1 (Additional Tests: PercentFuel)

CITY OF HAMILTON 2200 UPPER JAMES,, MOUNTAIN TRANSIT STOREROOM MOUNT HOPE, ON

CA LOR 1W0 Contact: Jeff Parr jeff.parr@hamilton.ca T: (905)546-2424

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.

F: (905)679-4502