

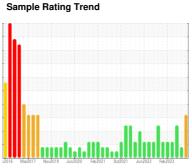
OIL ANALYSIS REPORT



NEW FLYER 1215

Component **Diesel Engine**

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





DIAGNOSIS

Recommendation

Check for low coolant level. 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. Water treatment chemicals present, indicating slow coolant leak. Tests confirm the presence of fuel in the oil. Test for glycol is negative.

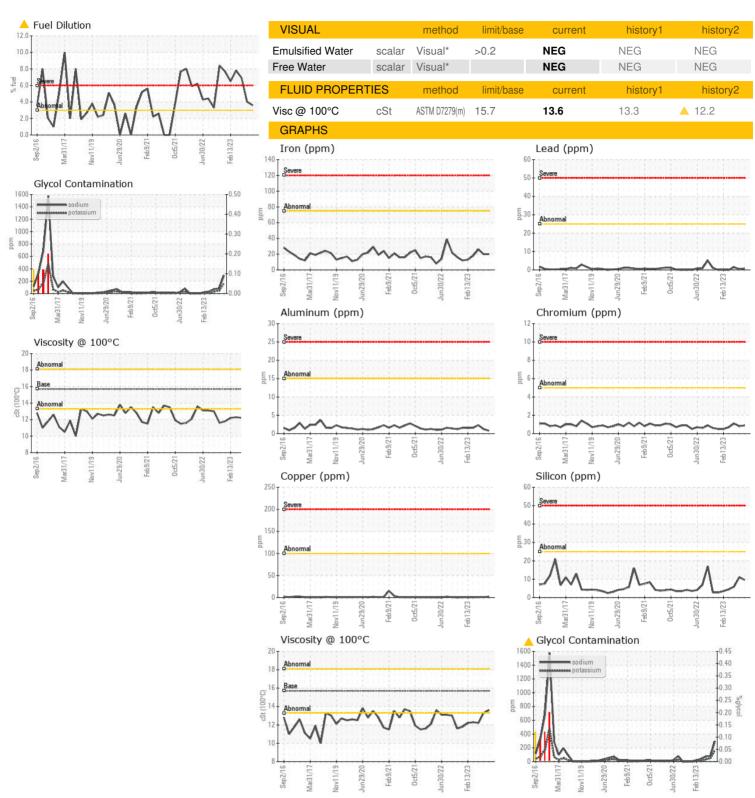
▲ Fluid Condition

The oil is no longer serviceable due to the presence of contaminants. The condition of the oil is acceptable for the time in service (see recommendation).

L I LOS XIID-7 131140	` '	32016 Mar20	117 Nov2019 Jun2020	Feb 2021 Oct2021 Jun 2022	Feb 2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0830220	WC0830311	WC0811596
Sample Date		Client Info		18 Aug 2023	05 Jul 2023	24 May 2023
Machine Age	kms	Client Info		819544	810256	808856
Oil Age	kms	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	SEVERE
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>75	20	20	26
Chromium	ppm	ASTM D5185(m)	>5	<1	<1	1
Nickel	ppm	ASTM D5185(m)	>4	0	0	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	<1	<1	0
Aluminum	ppm	ASTM D5185(m)	>15	<1	1	2
Lead	ppm	ASTM D5185(m)	>25	<1	<1	1
Copper	ppm	ASTM D5185(m)		2	1	1
Tin	ppm	ASTM D5185(m)	>4	0	0	0
Antimony	ppm	ASTM D5185(m)		0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
	рртт		11 11 11			
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		4	2	2
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		81	62	60
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)		908	931	904
Calcium	ppm	ASTM D5185(m)		981	1036	1009
Phosphorus	ppm	ASTM D5185(m)		939	1031	1029
Zinc	ppm	ASTM D5185(m)		1073	1154	1128
Sulfur	ppm	ASTM D5185(m)		2385	2404	2372
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS	}	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	10	11	6
Sodium	ppm	ASTM D5185(m)		^ 294	83	74
Potassium	ppm	ASTM D5185(m)	>20	167	47	33
Fuel	%	ASTM D7593*	>3.0	△ 3.6	<u> </u>	6.9
Glycol	%	ASTM D7922*		0.0	0.0	0.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	1.1	0.9	1.1
Nitration	Abs/cm	ASTM D7624*	>20	11.3	10.8	11.7
Sulfation	Abs/.1mm	ASTM D7024 ASTM D7415*	>30	26.6	25.8	26.7
FLUID DEGRADA		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	22.2	23.9	26.8



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited

Laboratory Sample No. Lab Number Unique Number

: WC0830220 : 02577378 : 5630438

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

: 22 Aug 2023 : 25 Aug 2023 Diagnostician : Kevin Marson

Test Package : MOB 1 (Additional Tests: Glycol, PercentFuel)

2200 UPPER JAMES,, MOUNTAIN TRANSIT STOREROOM

MOUNT HOPE, ON CA LOR 1W0 Contact: Jeff Parr jeff.parr@hamilton.ca T: (905)546-2424 F: (905)679-4502

CITY OF HAMILTON

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.