

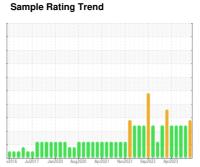
OIL ANALYSIS REPORT



NEW FLYER 0911

Component **Diesel Engine**

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





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.

V2016 Ju2017 Jan22020 Aug/0220 Aug/0221 Nov2022 Aug/0223						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0830294	WC0830258	WC0830057
Sample Date		Client Info		13 Oct 2023	27 Aug 2023	15 Jul 2023
Machine Age	kms	Client Info		235106	0	0
Oil Age	kms	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	SEVERE	SEVERE
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>75	34	30	33
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	0	0
Aluminum	ppm	ASTM D5185(m)	>15	2	2	1
Lead	ppm	ASTM D5185(m)	>25	0	0	<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	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
	рріп		lii+/			
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		2	1	1
Barium	ppm	ASTM D5185(m)		<1	0	0
Molybdenum	ppm	ASTM D5185(m)		64	62	58
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		776	875	849
Calcium	ppm	ASTM D5185(m)		873	940	929
Phosphorus	ppm	ASTM D5185(m)		804	940	923
Zinc	ppm	ASTM D5185(m)		963	1048	1045
Sulfur	ppm	ASTM D5185(m)		2110	2266	2253
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	6	4	5
Sodium	ppm	ASTM D5185(m)		102	62	54
Potassium	ppm	ASTM D5185(m)	>20	102	61	55
Fuel	%	ASTM D7593*	>3.0	8.6	7.6	● 8.1
Glycol	%	ASTM D7922*		0.0	0.0	0.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	1	0.9	1
Nitration	Abs/cm	ASTM D7624*		11.7	10.4	11.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	26.4	24.9	27.0
FLUID DEGRAD		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	27.1	22.6	27.5



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited

Laboratory Sample No. Lab Number Unique Number

: 02589905 : 5658971

cSt (100°C)

: WC0830294

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : 18 Oct 2023 Diagnosed

: 19 Oct 2023 Diagnostician : Kevin Marson

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

0.0

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

F: (905)679-4502

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.