

OIL ANALYSIS REPORT

Sample Rating Trend

FUEL



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

Metal levels are typical for a new component

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

The oil is no longer serviceable due to the presence

DIAGNOSIS

condition. Wear

breaking in.

Fluid Condition

of contaminants.

NEW FLYER 0822

Component Diesel Engine

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

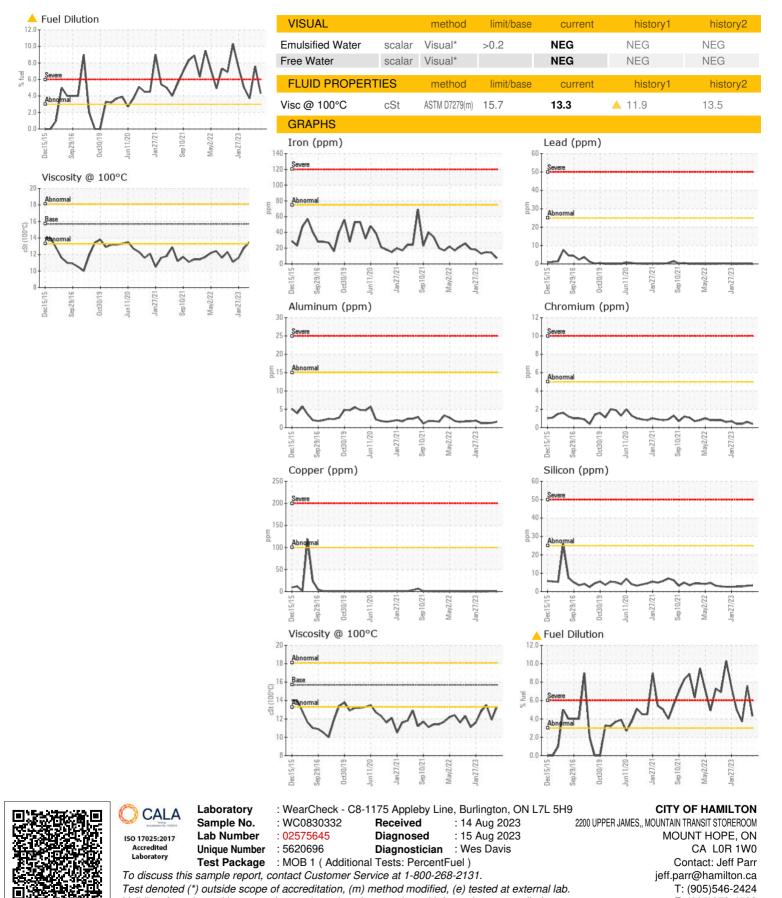
E PLUS XHD-7 15W40	(GAL)	c2015 Sep20	116 Oct2019 Jun2020	Jan2021 Sep2021 May2022	Jan2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0830332	WC0811589	WC0811449
Sample Date		Client Info		06 Aug 2023	16 Jun 2023	02 May 2023
Machine Age	kms	Client Info		18842	0	0
Oil Age	kms	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	SEVERE	MARGINAL
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	7	14	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	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>15	2	1	1
Lead	ppm	ASTM D5185(m)	>25	0	<1	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	<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
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)		55	55	58
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)		927	893	940
Calcium	ppm	ASTM D5185(m)		984	938	1053
Phosphorus	ppm	ASTM D5185(m)		1012	962	1069
Zinc	ppm	ASTM D5185(m)		1145	1108	1169
Sulfur	ppm	ASTM D5185(m)		2457	2285	2559
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	3	3	3
Sodium	ppm	ASTM D5185(m)		2	3	2
Potassium	ppm	ASTM D5185(m)	>20	- <1	<1	<1
Fuel	%	ASTM D7593*	>3.0	4.3	7.6	▲ 3.7
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	0.1	0.3	0.2
Nitration	Abs/cm	ASTM D7624*	>20	7.7	9.5	8.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.9	22.8	20.9
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	18.7	23.4	18.1
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Contact/Location: Jeff Parr - HAMHAM



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

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