

DIAGNOSIS Recommendation

Contamination

Fluid Condition

presence of contaminants.

condition. Wear

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

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

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

All component wear rates are normal.

NEW FLYER 1221

Diesel Engine

SAFETY-KLEEN PERFORMAN

EPLUS XHD-7 15W4	0 (GAL)	r2016 Nov20	16 Jun2017 Mar2020	Mar2021 Nov2021 Jul2022	Feb2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0830095	WC0830315	WC0791306
Sample Date		Client Info		16 Aug 2023	05 Jul 2023	23 May 2023
Machine Age	kms	Client Info		828288	0	0
Oil Age	kms	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
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	18	35	34
Chromium	ppm	ASTM D5185(m)	>5	1	2	2
Nickel	ppm	ASTM D5185(m)	>4	0	0	<1
Titanium	ppm	ASTM D5185(m)	>2	0	<1	1
Silver	ppm	ASTM D5185(m)	>2	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>15	<1	1	2
Lead	ppm	ASTM D5185(m)	>25	2	5	2
Copper	ppm	ASTM D5185(m)	>100	2	6	10
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)		0	<1	2
Molybdenum	ppm	ASTM D5185(m)		56	56	57
Manganese	ppm	ASTM D5185(m)		<1	1	2
Magnesium	ppm	ASTM D5185(m)		925	920	913
Calcium	ppm	ASTM D5185(m)		978	1014	1014
Phosphorus	ppm	ASTM D5185(m)		1014	1013	1018
Zinc	ppm	ASTM D5185(m)		1119	1140	1141
Sulfur	ppm	ASTM D5185(m)		2395	2317	2418
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANT	S	method	limit/base	current	history1	history2
	ppm	ASTM D5185(m)	>25	4	6	11
Silicon		ASTM D5185(m) ASTM D5185(m)				11 25
Silicon Sodium	ppm			4	6	
Silicon Sodium Potassium	ppm ppm	ASTM D5185(m)	>25	4 4	6 8	25
Silicon Sodium Potassium	ppm ppm ppm	ASTM D5185(m) ASTM D5185(m)	>25 >20	4 4 <1	6 8 <1	25 <1
Silicon Sodium Potassium Fuel INFRA-RED	ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D7593*	>25 >20 >3.0	4 4 <1 ▲ 3.9	6 8 <1 ▲ 5.1	25 <1 ▲ 5.4
Silicon Sodium Potassium Fuel INFRA-RED Soot %	ppm ppm ppm %	ASTM D5185(m) ASTM D5185(m) ASTM D7593* method	>25 >20 >3.0 limit/base	4 4 <1 ▲ 3.9 current	6 8 <1 ▲ 5.1 history1	25 <1 ▲ 5.4 history2
Silicon Sodium Potassium Fuel	ppm ppm %	ASTM D5185(m) ASTM D5185(m) ASTM D7593* method ASTM D7844*	>25 >20 >3.0 limit/base >6	4 4 <1 ▲ 3.9 current 0.5	6 8 <1 ▲ 5.1 history1 0.7	25 <1 ▲ 5.4 history2 0.5
Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration	ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185(m) ASTM D5185(m) ASTM D7593* method ASTM D7844* ASTM D7624*	>25 >20 >3.0 limit/base >6 >20	4 4 <1 ▲ 3.9 <u>current</u> 0.5 8.9	6 8 <1 ▲ 5.1 history1 0.7 9.7	25 <1 ▲ 5.4 history2 0.5 8.9
Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185(m) ASTM D5185(m) ASTM D7593* method ASTM D7844* ASTM D7624* ASTM D7415*	>25 >20 >3.0 limit/base >6 >20 >30	4 4 <1 ▲ 3.9 <u>current</u> 0.5 8.9 23.6	6 8 <1 ▲ 5.1 history1 0.7 9.7 24.3	25 <1 ▲ 5.4 0.5 8.9 21.9



🔺 Fuel Dilution

OIL ANALYSIS REPORT

method

limit/base

current

history1

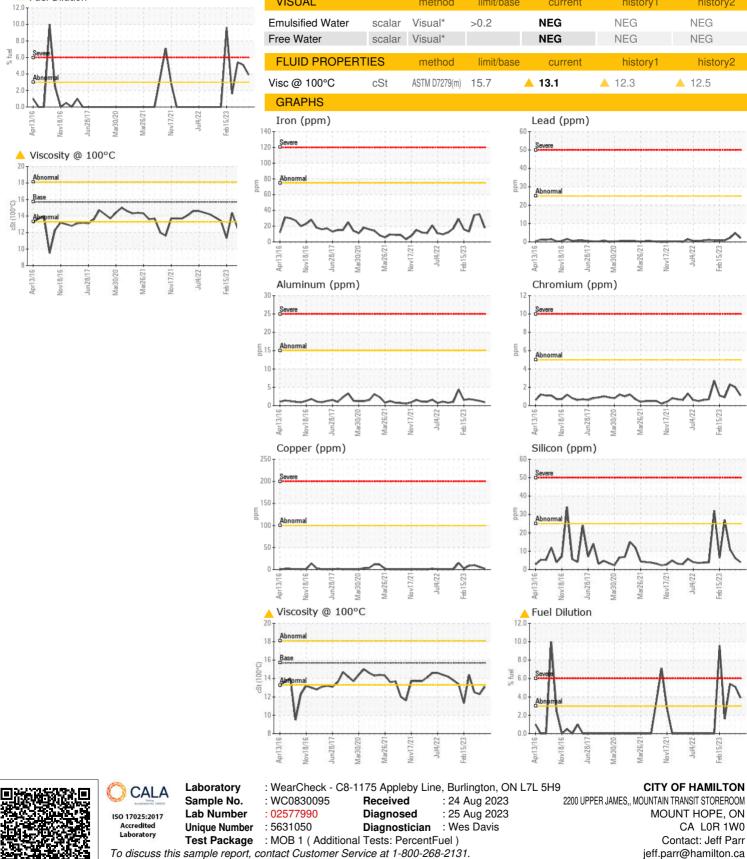
history2

history2

NEG

NEG

VISUAL



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.

Report Id: HAMHAM [WCAMIS] 02577990 (Generated: 08/25/2023 09:37:33) Rev: 1

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