

## **OIL ANALYSIS REPORT**

Sample Rating Trend

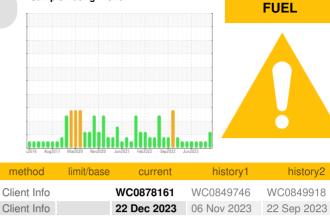


[1494655] Machine Id NEW FLYER 1113

Component Diesel Engine Fluid

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

SAMPLE INFORMATION



A Recommendation
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

DIAGNOSIS

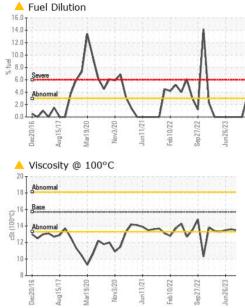
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

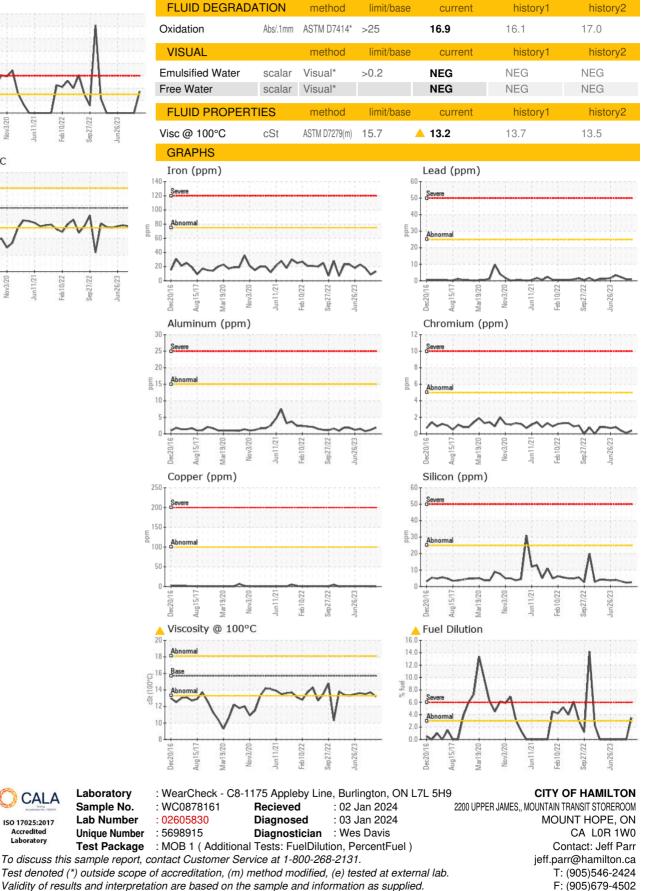
## Fluid Condition

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

Sample Number		Client Info		WC0878161	WC0849746	WC0849918
Sample Date		Client Info		22 Dec 2023	06 Nov 2023	22 Sep 2023
Machine Age	kms	Client Info		856467	847990	0
Oil Age	kms	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINATION	N	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>75	13	9	18
Chromium	ppm	ASTM D5185(m)	>5	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	0	0
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>15	2	1	<1
Lead	ppm	ASTM D5185(m)	>25	<1	<1	2
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	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	<1
Molybdenum	ppm	ASTM D5185(m)		58	57	61
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)		944	948	959
Calcium	ppm	ASTM D5185(m)		1029	1015	1029
Phosphorus	ppm	ASTM D5185(m)		979	1005	991
Zinc	ppm	ASTM D5185(m)		1157	1158	1179
Sulfur	ppm	ASTM D5185(m)		2563	2468	2423
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	3	2	3
Sodium	ppm	ASTM D5185(m)		1	1	3
Potassium	ppm	ASTM D5185(m)	>20	2	0	<1
Fuel	%	ASTM D7593*	>3.0	<mark>/</mark> 3.5	<1.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	0.8	0.6	1.1
Nitration	Abs/cm	ASTM D7624*	>20	8.8	7.2	8.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.8	20.9	21.8

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