

# **OIL ANALYSIS REPORT**

Sample Rating Trend

FUEL



Machine Id NEW FLYER 0909 Component

Diesel Engine

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

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
		Client Info		WC0878045	WC0830090	WC0849935
Sample Number						
Sample Date	Luce a	Client Info		11 Dec 2023	23 Oct 2023	12 Sep 2023
Machine Age	kms	Client Info		1108342	109944	108931
Dil Age	kms	Client Info		0	0	0
Dil Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	SEVERE	SEVERE
CONTAMINATIC	N	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185(m)	>75	22	24	26
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	<1	<1	0
Aluminum	ppm	ASTM D5185(m)	>15	1	<1	1
_ead	ppm	ASTM D5185(m)	>25	0	<1	<1
Copper	ppm	ASTM D5185(m)	>100	<1	<1	1
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)		2	2	3
Barium	ppm	ASTM D5185(m)		<1	<1	0
Volybdenum	ppm	ASTM D5185(m)		59	56	59
Vanganese	ppm	ASTM D5185(m)		0	0	<1
Vagnesium	ppm	ASTM D5185(m)		924	852	860
Calcium	ppm	ASTM D5185(m)		996	933	930
Phosphorus	ppm	ASTM D5185(m)		930	842	895
Zinc	ppm	ASTM D5185(m)		1134	1048	1025
Sulfur	ppm	ASTM D5185(m)		2339	2222	2248
_ithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	4	3	4
Sodium	ppm	ASTM D5185(m)		15	25	58
Potassium	ppm	ASTM D5185(m)	>20	10	18	45
Fuel	%	ASTM D7593*	>3.0	• 7	8.5	7.7
Glycol	%	ASTM D7922*		0.0	0.0	0.0
INFRA-RED		method	limit/base	current	history1	history2
INFRA-RED Soot %	%	method ASTM D7844*	limit/base >6	current 0.5	history1 0.6	history2 0.7

## 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.

Sulfation

Abs/.1mm ASTM D7415\* >30

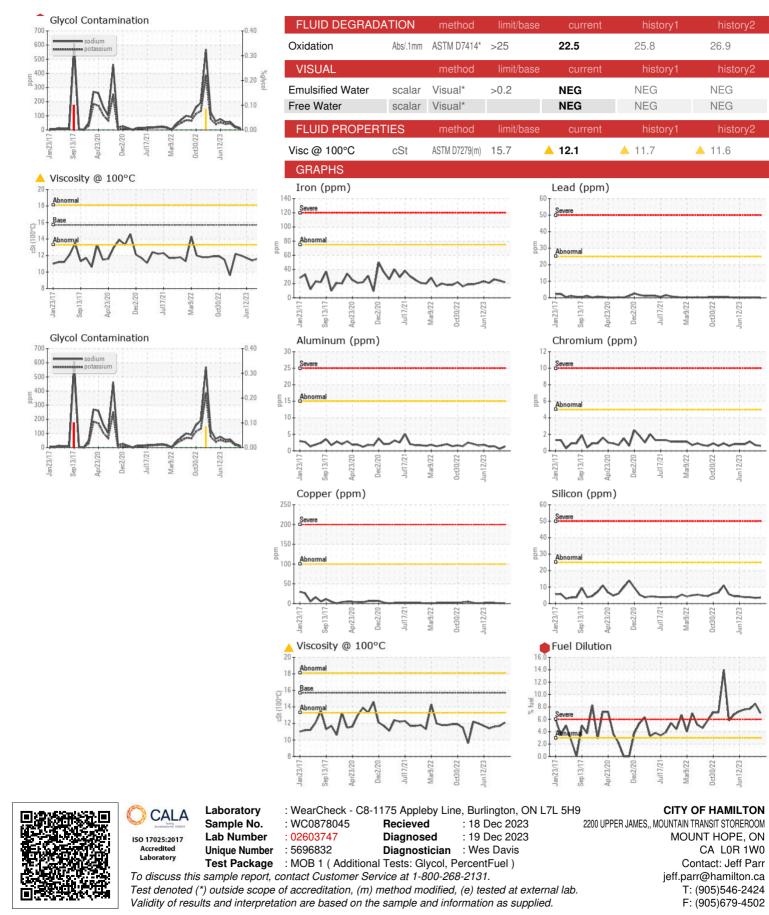
25.4

24.2

22.4



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