

OIL ANALYSIS REPORT

Sample Rating Trend

FUEL

X



Area [1497166] Machine Id NEW FLYER 1116 Component

Diesel Engine

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

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0891057	WC0877989	WC0830242
Sample Date		Client Info		18 Jan 2024	03 Dec 2023	17 Oct 2023
Machine Age	kms	Client Info		875832	0	858334
Oil Age	kms	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	SEVERE	ABNORMA
CONTAMINATIC	DN	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>75	16	19	21
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	2	2
Lead	ppm	ASTM D5185(m)	>25	1	3	<1
Copper	ppm	ASTM D5185(m)	>100	26	126	12
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	3	11
Barium	ppm	ASTM D5185(m)		0	<1	<1
Molybdenum	ppm	ASTM D5185(m)		59	71	127
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)		852	828	855
Calcium	ppm	ASTM D5185(m)		925	900	952
Phosphorus	ppm	ASTM D5185(m)		857	836	925
Zinc	ppm	ASTM D5185(m)		1018	997	1013
Sulfur	ppm	ASTM D5185(m)		2138	2046	2397
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	4	8	A 27
Sodium	ppm	ASTM D5185(m)		93	▲ 251	▲ 807
Potassium	ppm	ASTM D5185(m)	>20	44	119	4 39
Fuel	%	ASTM D7593*	>3.0	e 10.3	9.9	▲ 5.2
Glycol	%	ASTM D7922*		0.0	0.0	0.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	1.1	1.2	1.3
Nitration	Abs/cm	ASTM D7624*	>20	10.7	11.1	12.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.2	24.6	26.3

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

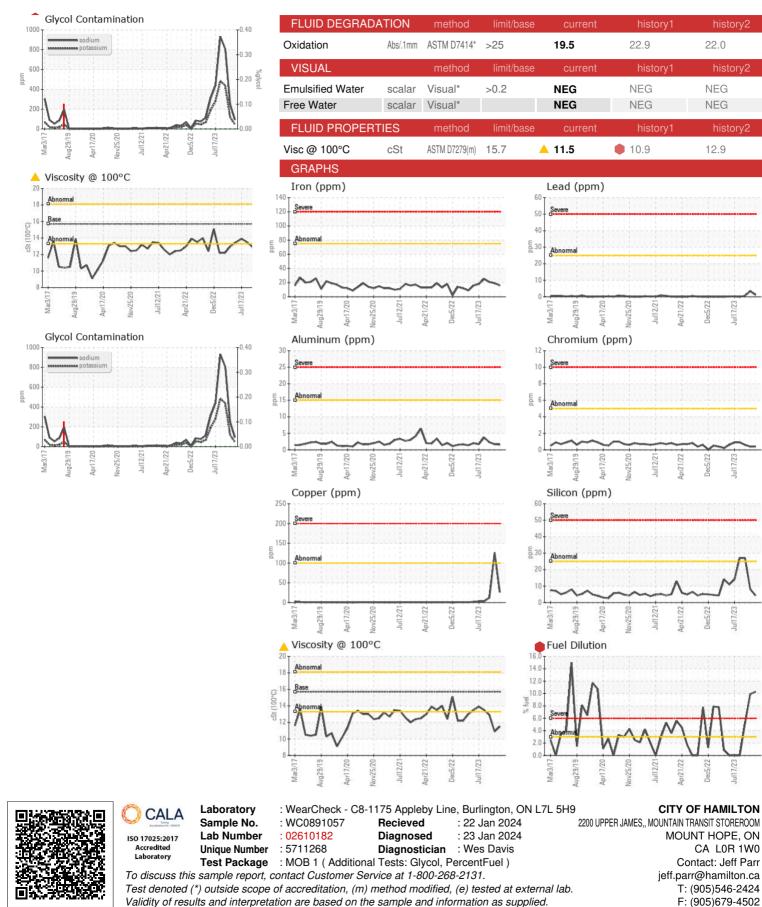
There is a high amount of fuel present in the oil. Test for glycol is negative. Tests confirm the presence of fuel in the oil.

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.



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