

OIL ANALYSIS REPORT

Sample Rating Trend

FUEL



Machine Id NEW FLYER 1010 Component

Diesel Engine

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

E PLUS XHD-7 15W4	0 (GAL)	n2017 Sep20	117 Apr2020 Nov2020	Jul2021 Mar2022 Oct2022	Jul2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0891054	WC0877994	WC0830210
Sample Date		Client Info		18 Jan 2024	04 Dec 2023	16 Oct 2023
Machine Age	kms	Client Info		1052813	0	1036904
Oil Age	kms	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	SEVERE	SEVERE
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	19	28	37
Chromium	ppm	ASTM D5185(m)	>5	<1	1	1
Nickel	ppm	ASTM D5185(m)	>4	0	<1	<1
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	1
Lead	ppm	ASTM D5185(m)	>25	0	<1	1
Copper	ppm	ASTM D5185(m)	>100	<1	2	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)		<1	4	<1
Barium	ppm	ASTM D5185(m)		0	<1	<1
Molybdenum	ppm	ASTM D5185(m)		52	55	53
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)		855	862	840
Calcium	ppm	ASTM D5185(m)		916	1001	919
Phosphorus	ppm	ASTM D5185(m)		884	820	840
Zinc	ppm	ASTM D5185(m)		1034	1044	1038
Sulfur	ppm	ASTM D5185(m)		2403	2179	2135
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	3	6	4
Sodium	ppm	ASTM D5185(m)		2	11	3
Potassium	ppm	ASTM D5185(m)	>20	1	▲ 25	0
Fuel	%	ASTM D7593*	>3.0	e 10.5	6.5	• 8
Glycol	%	ASTM D7922*		0.0	0.317	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	0.3	0.4	0.7
Nitration	Abs/cm	ASTM D7624*	>20	9.9	12.1	10.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.9	24.2	24.7

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. 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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