

OIL ANALYSIS REPORT

Sample Rating Trend



NEW FLYER 0902

Diesel Engine

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

FUEL

DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		WC0849830	WC0830143	WC0811418
We recommend that you drain the oil from the component if this has not already been done. We	Sample Date		Client Info		28 Aug 2023	17 Jul 2023	02 Jun 2023
	Machine Age	kms	Client Info		322950	315418	0
commend an early resample to monitor this	Oil Age	kms	Client Info		0	0	0
ondition.	Oil Changed		Client Info		N/A	N/A	N/A
	Sample Status				ABNORMAL	SEVERE	ABNORMAL
l component wear rates are normal.	CONTAMINATIO	N	method	limit/base	current	history1	history2
Contamination here is a moderate amount of fuel present in the I. Tests confirm the presence of fuel in the oil.	Glycol		WC Method		NEG	NEG	NEG
Fluid Condition	WEAR METALS		method	limit/base	current	history1	history2
Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.	Iron	ppm	ASTM D5185(m)	>75	26	26	15
	Chromium	ppm	ASTM D5185(m)		<1	1	<1
	Nickel	ppm	ASTM D5185(m)		0	0	0
	Titanium	ppm	ASTM D5185(m)	>2	0	0	0
	Silver	ppm	ASTM D5185(m)		0	0	0
	Aluminum	ppm	ASTM D5185(m)		2	1	2
	Lead	ppm	ASTM D5185(m)		- <1	1	<1
	Copper	ppm	ASTM D5185(m)		<1	<1	<1
	Tin	ppm	ASTM D5185(m)		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	6
	Barium	ppm	ASTM D5185(m)		0	0	0
	Molybdenum	ppm	ASTM D5185(m)		57	54	57
	Manganese	ppm	ASTM D5185(m)		<1	<1	<1
	Magnesium	ppm	ASTM D5185(m)		930	900	937
	Calcium	ppm	ASTM D5185(m)		992	983	1069
	Phosphorus	ppm	ASTM D5185(m)		983	963	1021
	Zinc	ppm	ASTM D5185(m)		1132	1107	1135
	Sulfur	ppm	ASTM D5185(m)		2392	2298	2379
	Lithium	ppm	ASTM D5185(m)		<1	<1	<1
	CONTAMINANTS		method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185(m)		3	3	3
	Sodium	ppm	ASTM D5185(m)	2 60	2	2	2
	Potassium	ppm	ASTM D5185(m)	>20	- <1	<1	<1
	Fuel	%	ASTM D3103(III) ASTM D7593*		▲ 5.2	6.5	▲ 5.5
	INFRA-RED		method	limit/base		history1	history2
	Soot %	%	ASTM D7844*		0.3	0.4	0.2
	Nitration	76 Abs/cm	ASTM D7644 ASTM D7624*		10.0	11.6	9.8
	Sulfation	Abs/cm Abs/.1mm	ASTM D7624 ASTM D7415*	>20 >30	24.0	26.6	9.8
	FLUID DEGRAD	AHON	method	limit/base	current	history1	history2
	Oxidation		ASTM D7414*		22.6	29.2	23.4



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