

OIL ANALYSIS REPORT

Sample Rating Trend

FUEL



Machine Io **NEW FLYER 0**

Diesel Engine

SAFETY-KLEEN PERFORMANCE

925						X
E PLUS XHD-7 15W40 (LTR)						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0830333	WC0811351	WC0811436
Sample Date		Client Info		12 Aug 2023	26 Jun 2023	16 May 2023
Machine Age	kms	Client Info		0	440817	432547
Dil Age	kms	Client Info		0	0	0
Dil Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	SEVERE	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185(m)	>75	24	43	32
Chromium	ppm	ASTM D5185(m)	>5	1	2	2
Nickel	ppm	ASTM D5185(m)	>4	0	0	<1
Fitanium	ppm	ASTM D5185(m)	>2	0	<1	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>15	1	2	2
ead	ppm	ASTM D5185(m)	>25	<1	2	1
Copper	ppm	ASTM D5185(m)	>100	2	2	2
īin	ppm	ASTM D5185(m)	>4	0	<1	<1
Antimony	ppm	ASTM D5185(m)		0	0	<1
/anadium	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)		6	21	7
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		82	86	83
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)		837	683	855
Calcium	ppm	ASTM D5185(m)		895	986	953
Phosphorus	ppm	ASTM D5185(m)		939	661	1025
Zinc	ppm	ASTM D5185(m)		1000	716	1058
Sulfur	ppm	ASTM D5185(m)		2297	1822	2471
₋ithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS	\$	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	8	12	8
Sodium	ppm	ASTM D5185(m)		<u> </u>	426	A 343
Potassium	ppm	ASTM D5185(m)	>20	<u> </u>	A 300	A 214
Fuel	%	ASTM D7593*	>3.0	6.1	e 8.5	▲ 7.8
Glycol	%	ASTM D7922*		0.0	0.0	▲ 0.014
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	0.5	0.6	0.5
	A1 /		00	407	10.7	10.0
Nitration	Abs/cm	ASTM D7624*	>20	10.7	13.7	10.9
Nitration Sulfation	Abs/cm Abs/.1mm	ASTM D7624* ASTM D7415*	>20 >30	10.7 25.6	28.0	23.6

DIAGNOSIS

Recommendation

We advise that you check the fuel injection system. Check for low coolant level. 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. Water treatment chemicals present, indicating slow coolant leak. 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. The condition of the oil is acceptable for the time in service (see recommendation).

Oxidation

Abs/.1mm ASTM D7414* >25

22.7

▲ 31.9

24.5



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