

DIAGNOSIS Recommendation

OIL ANALYSIS REPORT

Sample Rating Trend

Machine Id **NEW FLYER 1212 Diesel Engine** Fluid

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

			GLICOL
1.	11.111.	n .III Ihii	
-2017 M-2020			

DIAGNOSIS	SAMPLE INFORMAT	TION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		WC0937123	WC0937093	WC0917545
Ve advise that you check for the source of the	Sample Date		Client Info		08 Jul 2024	19 May 2024	28 Mar 2024
coolant leak. We recommend that you drain the oil	Machine Age kr	ms	Client Info		888646	878709	865226
rom the component if this has not already been	Oil Age kr	ms	Client Info		0	0	0
one. We advise that you hush the component	Oil Changed		Client Info		N/A	Changed	N/A
in early resample to monitor this condition.	Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
/ear	CONTAMINATION		method	limit/base	current	history1	history2
Il component wear rates are normal.	Water		WC Method	>0.2	NEG	NEG	NEG
Contamination	WEAR METALS		method	limit/base	current	history1	history2
ecurring. There is a light concentration of divide			method	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	current	Thistory I	Thistory2
resent in the oil. No other contaminants were	Iron pr	pm .	ASTM D5185(m)	>75	32	26	16
etected in the oil.	Chromium pr	pm .	ASTM D5185(m)	>5	1	<1	<1
Fluid Condition	Nickel pr	pm	ASTM D5185(m)	>4	0	0	0
the oil is no longer serviceable due to the presence	Titanium p	pm	ASTM D5185(m)	>2	0	0	0
contaminants.	Silver p	pm	ASTM D5185(m)	>2	0	0	0
	Aluminum pr	pm	ASTM D5185(m)	>15	2	1	1
	Lead pr	pm	ASTM D5185(m)	>25	2	2	<1
	Copper pr	pm .	ASTM D5185(m)	>100	5	2	2
	Tin pi	pm	ASTM D5185(m)	>4	0	0	0
	Antimony p	pm .	ASTM D5185(m)		0	0	0
	Vanadium p	pm	ASTM D5185(m)		0	0	0
	Beryllium pr	pm	ASTM D5185(m)		0	0	0
	Cadmium pr	pm	ASTM D5185(m)		0	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron pr	pm	ASTM D5185(m)		18	4	4
	Barium pr	pm .	ASTM D5185(m)		0	0	0
	Molybdenum pr	pm	ASTM D5185(m)		168	85	87
	Manganese pr	pm	ASTM D5185(m)		<1	<1	0
	Magnesium pr	pm	ASTM D5185(m)		800	953	937
	Calcium	pm .	ASTM D5185(m)		967	999	976
	Phosphorus	pm	ASTM D5185(m)		1012	1001	1034
	Zinc	pm	ASTM D5185(m)		1095	1138	1133
	Sulfur	pm	ASTM D5185(m)		2668	2405	2458
	Lithium pr	pm	ASTM D5185(m)		<1	<1	<1
	CONTAMINANTS		method	limit/base	current	history1	history2
	Silicon	pm	ASTM D5185(m)	>25	38	12	8
	Sodium	pm	ASTM D5185(m)		1369	351	338
	Potassium	pm	ASTM D5185(m)	>20	A 724	2 04	2 09
	Fuel %		ASTM D7593*	>3.0	▲ 2.4	2.9	4.1
	Glycol %	, , ,	ASTM D7922*		0.011	0.0	0.0
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	,		>6	1.0	1.1	0.7
				00	1.2	1.1	0.7
	Nitration Al	DS/CM	ASTM D/624*	>20	13.5	10.9	9.4

Abs/.1mm ASTM D7415* >30

Sulfation

21.4

24.0

27.4



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