

OIL ANALYSIS REPORT

Sample Rating Trend

GLYCOL



NEW FLYER 1212

Diesel Engine

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

E PLUS XHD-7 15W40 (GAL)										
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2				
Sample Number		Client Info		WC0917545	WC0890926	WC0891041				
Sample Date		Client Info		28 Mar 2024	13 Feb 2024	04 Jan 2024				
Machine Age	kms	Client Info		865226	856048	846596				
Oil Age	kms	Client Info		0	0	0				
Oil Changed		Client Info		N/A	N/A	N/A				
Sample Status				ABNORMAL	ATTENTION	ABNORMAL				
CONTAMINATION	N	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	8	17				
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	0	0				
Aluminum	ppm	ASTM D5185(m)	>15	1	2	2				
Lead	ppm	ASTM D5185(m)	>25	<1	<1	1				
Copper	ppm	ASTM D5185(m)	>100	2	1	4				
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)		4	2	8				
Barium	ppm	ASTM D5185(m)		0	0	0				
Molybdenum	ppm	ASTM D5185(m)		87	70	139				
Manganese	ppm	ASTM D5185(m)		0	0	0				
Magnesium	ppm	ASTM D5185(m)		937	906	907				
Calcium	ppm	ASTM D5185(m)		976	940	985				
Phosphorus	ppm	ASTM D5185(m)		1034	1014	1077				
Zinc	ppm	ASTM D5185(m)		1133	1123	1075				
Sulfur	ppm	ASTM D5185(m)		2458	2656	2668				
Lithium	ppm	ASTM D5185(m)		<1	<1	<1				
CONTAMINANTS		method	limit/base	current	history1	history2				
Silicon	ppm	ASTM D5185(m)	>25	8	5	15				
Sodium	ppm	ASTM D5185(m)		<mark>)</mark> 338	60	804				
Potassium	ppm	ASTM D5185(m)	>20	<u> </u>	91	4 89				
Fuel	%	ASTM D7593*	>3.0	<u> </u>	<1.0	<1.0				
Glycol	%	ASTM D7922*		0.0	0.0	0.0				

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	0.7	0.4	0.7
Nitration	Abs/cm	ASTM D7624*	>20	9.4	7.3	10.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.4	20.6	22.4

DIAGNOSIS

Recommendation

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 moderate 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).



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limit/base

limit/base

current

current

16.2

NEG

NEG





history1

history1

15.0

NEG

NEG

history2

history2

17.2

NEG

NEG

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **CITY OF HAMILTON** CALA Sample No. : WC0917545 Received : 04 Apr 2024 2200 UPPER JAMES,, MOUNTAIN TRANSIT STOREROOM Lab Number : 02626566 Tested : 05 Apr 2024 MOUNT HOPE, ON ISO 17025:2017 Accredited Unique Number : 5759698 Diagnosed : 05 Apr 2024 - Wes Davis CA LOR 1W0 Laboratory Test Package : MOB 1 (Additional Tests: FuelDilution, Glycol, PercentFuel) Contact: Jeff Parr To discuss this sample report, contact Customer Service at 1-800-268-2131. jeff.parr@hamilton.ca Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: (905)546-2424 Validity of results and interpretation are based on the sample and information as supplied. F: (905)679-4502

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Contact/Location: Jeff Parr - HAMHAM

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