

OIL ANALYSIS REPORT

Sample Rating Trend

GLYCOL



NEW FLYER 1105

Component **Diesel Engine**

SAFETY-KLEEN PERFORMAN

INFRA-RED

FLUID DEGRADATION

Soot %

Nitration

Sulfation

Oxidation

method

ASTM D7844*

ASTM D7415*

method

Abs/.1mm ASTM D7414*

Abs/cm ASTM D7624* >20

%

Abs/.1mm

limit/base

limit/base

>6

>30

current

current

0.7

8.8

23.5

18.4



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. Tests confirm the presence of fuel in the oil. Test for glycol is negative.

▲ Fluid Condition

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).

CE PLUS XHD-7 15W40 (GAL)						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0830213	WC0811573	WC0791396
Sample Date		Client Info		21 Aug 2023	01 May 2023	05 Apr 2023
Machine Age	kms	Client Info		776176	0	0
Oil Age	kms	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	MARGINAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>75	18	29	28
Chromium	ppm	ASTM D5185(m)	>5	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	0	0	0
Titanium	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	1
Lead	ppm	ASTM D5185(m)	>25	<1	3	1
Copper	ppm	ASTM D5185(m)	>100	1	1	1
Tin	ppm	ASTM D5185(m)	>4	0	<1	<1
Antimony	ppm	ASTM D5185(m)		<1	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)		2	1	<1
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		71	63	59
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)		947	963	944
Calcium	ppm	ASTM D5185(m)		983	1062	1048
Phosphorus	ppm	ASTM D5185(m)		1068	1081	1064
Zinc	ppm	ASTM D5185(m)		1162	1202	1159
Sulfur	ppm	ASTM D5185(m)		2536	2519	2537
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS	8	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	7	6	5
Sodium	ppm	ASTM D5185(m)		<u> </u>	59	8
Potassium	ppm	ASTM D5185(m)	>20	81	19	1
Fuel	%	ASTM D7593*	>3.0	<u>^</u> 3	△ 3.9	△ 4.1
Glycol	%	ASTM D7922*		0.0	0.0	NEG

history1

history1

0.8

9.5

22.7

20.1

history2

history2

0.7

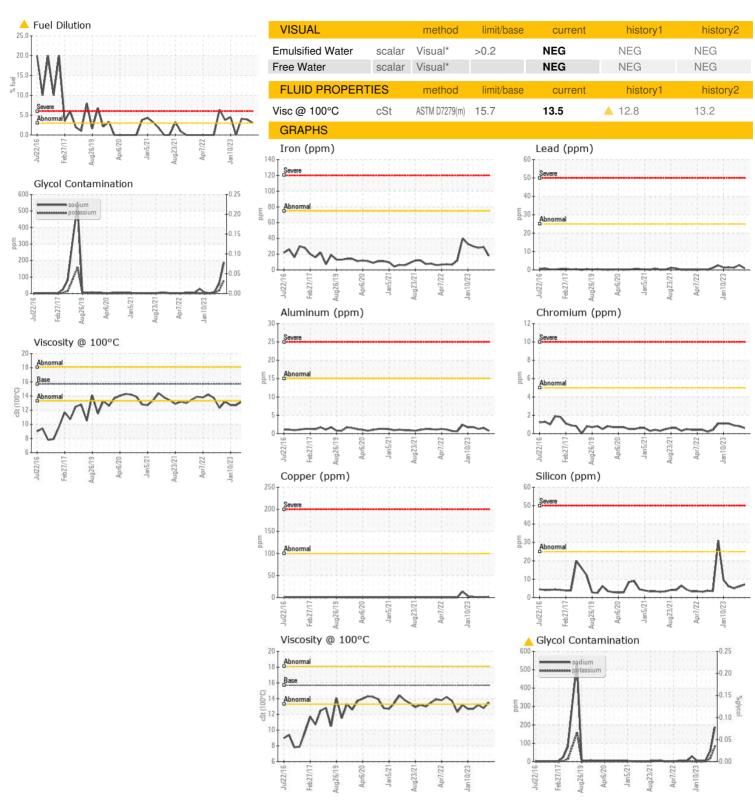
9.5

23.2

16.9



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited

Laboratory Sample No. Lab Number Unique Number

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

: WC0830213 : 02577992

: 5631052

Received : 24 Aug 2023 Diagnosed : 25 Aug 2023 Diagnostician : Kevin Marson

Test Package: MOB 1 (Additional Tests: Glycol, PercentFuel)

To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

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