

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area [6172] Machine Id NEW FLYER 1203-312 Component

Diesel Engine

VALVOLINE 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

Fluid Condition

The condition of the oil is acceptable for the time in service.

GAL)		g2015 May201	6 Jan2017 Sep2017 Ap	2018 Mar2019 Oct2019 Jan2022	Jun2023	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0875083	WC0805068	WC0805039
Sample Date		Client Info		30 Dec 2023	18 Jul 2023	09 Jun 2023
Machine Age	kms	Client Info		508890	481938	472540
Oil Age	kms	Client Info		0	0	0
Oil Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	1	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	31	7	7
Chromium	ppm	ASTM D5185(m)	>20	1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	0
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	2	<1
Lead	ppm	ASTM D5185(m)	>40	<1	0	0
Copper	ppm	ASTM D5185(m)	>330	2	<1	1
Tin	ppm	ASTM D5185(m)	>15	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)	39	9	28	49
Barium	ppm	ASTM D5185(m)	1	1	0	0
Molybdenum	ppm	ASTM D5185(m)	49	10	35	13
Manganese	ppm	ASTM D5185(m)	1	<1	0	0
Magnesium	ppm	ASTM D5185(m)	616	55	42	70
Calcium	ppm	ASTM D5185(m)	1554	2130	2219	2214
Phosphorus	ppm	ASTM D5185(m)	899	829	994	997
Zinc	ppm	ASTM D5185(m)	1069	987	1115	1142
Sulfur	ppm	ASTM D5185(m)	2624	3002	3042	2901
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	6	5	4
Sodium	ppm	ASTM D5185(m)		4	3	2
Potassium	ppm	ASTM D5185(m)	>20	5	1	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.7	0.9	0.8
Nitration	Abs/cm	ASTM D7624*	>20	9.2	9.8	10.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.0	23.3	23.7



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MVT Canadian Bus 133 Welham Road Barrie, ON CA L4N 8Y3 Contact: Frank Mastromarco frank.mastromarco@mvtransit.com T: (709)792-5033 F:

Mar23/19

T1/61 08

an4/77

17.0

NEG

NEG

13.8

ep 19/1

ar23/1

19.0

NEG

NEG

14.3



Report Id: MVTBAR [WCAMIS] 02606938 (Generated: 01/08/2024 15:49:10) Rev: 1

CALA

ISO 17025:2017 Accredited Laboratory

Laboratory

Sample No.

Lab Number

Unique Number

Test Package : MOB 1

: WC0875083

: 02606938

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.

: 5708024

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

: 08 Jan 2024

: 08 Jan 2024

: Wes Davis

Recieved

Diagnosed

Diagnostician

Submitted By: Scott Ewan

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