



C8-1175 Appleby Line
 Burlington, ON, Canada L7L 5H9

FLUID ANALYSIS REPORTS

Standard 9 x 5-3/4

To: Pierre Beauchamp
 Adrenalube - 9042628 Canada Inc
 3755 - E Boul Matte
 Brossard, QC, Canada J4Y 2P4

Adrenalube - 9042628 Canada Inc - 3755 - E Boul Matte, Brossard, QC J4Y 2P4

Sample No. : WC0416891
Lab Number : 02336658
Test Package : MOB 1
Sampled : 14 Jan 2020

Machine Id **INTERNATIONAL 2004 16-LAPV-01-145-M**
 Component Front Diesel Engine
 Fluid LUBRI-DELTA 15W40 (38 LTR)

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

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OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
INTERNATIONAL 2004 16-LAPV-01-145-M

Component
Front Diesel Engine

Fluid
LUBRI-DELTA 15W40 (38 LTR)

#8 #7 #6

RECOMMENDATION

Resample at the next service interval to monitor. Sample Comment: Engine used Engine Oil Additive ADRENALUBE ZP-700 The last oil change dates from April 2016

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number				WC0416891	WC0389217	WC0323758
Sample Date				14 Jan 2020	24 Oct 2019	01 Apr 2019
Machine Age	kms			117900	115738	112570
Oil Age	kms			29103	26941	23773
Filter Age	kms			29103	26941	23773
Oil Changed				Changed	Not Changd	Not Changd
Filter Changed				Changed	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>90	61	56	52
Chromium	ppm	ASTM D5185(m)	>20	1	1	<1
Nickel	ppm	ASTM D5185(m)	>2	0	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	<1	<1	<1
Silver	ppm	ASTM D5185(m)	>2	<1	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	4	3	3
Lead	ppm	ASTM D5185(m)	>40	12	11	9
Copper	ppm	ASTM D5185(m)	>330	4	4	4
Tin	ppm	ASTM D5185(m)	>15	1	1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

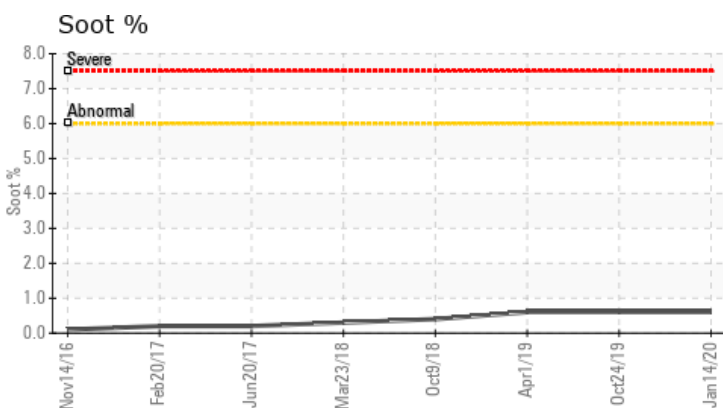
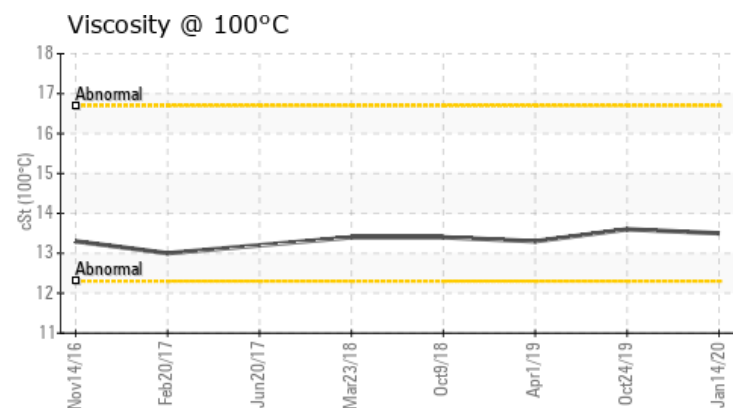
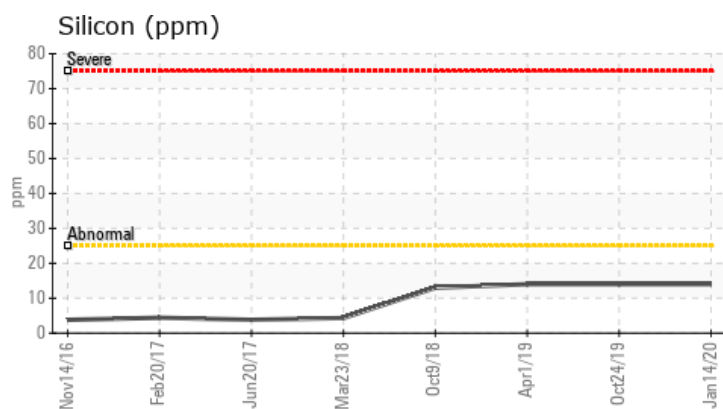
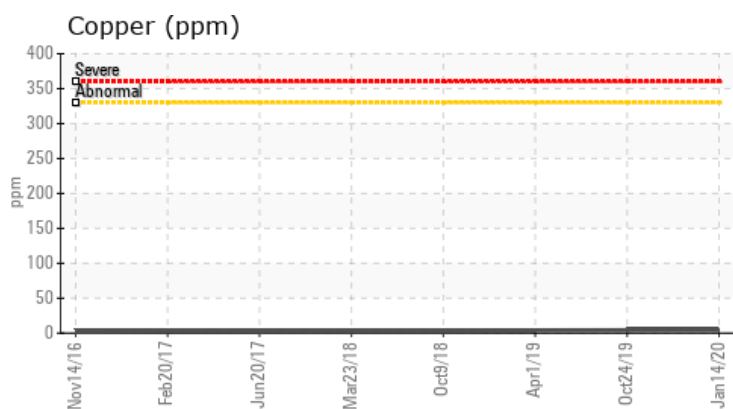
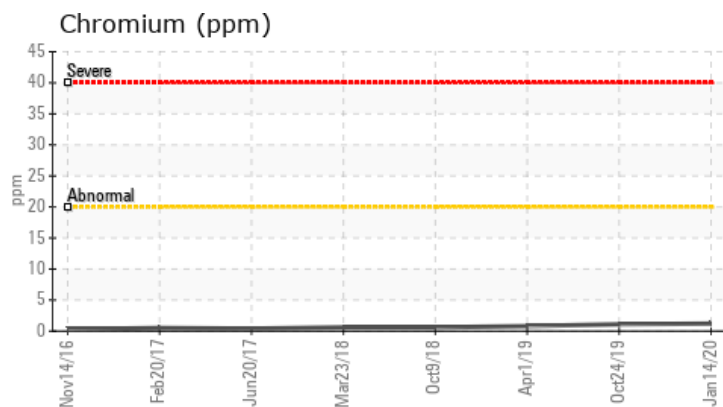
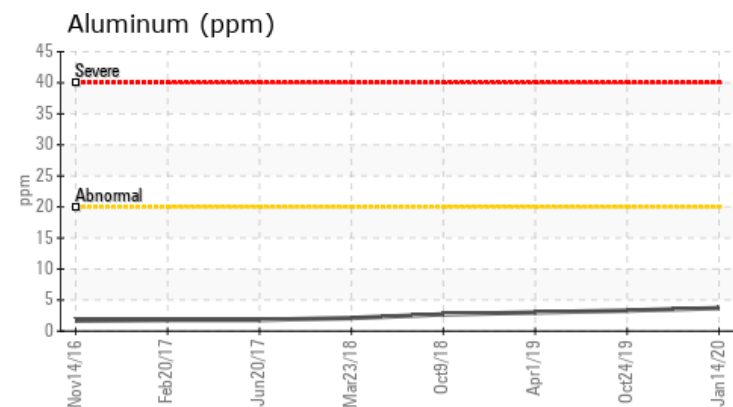
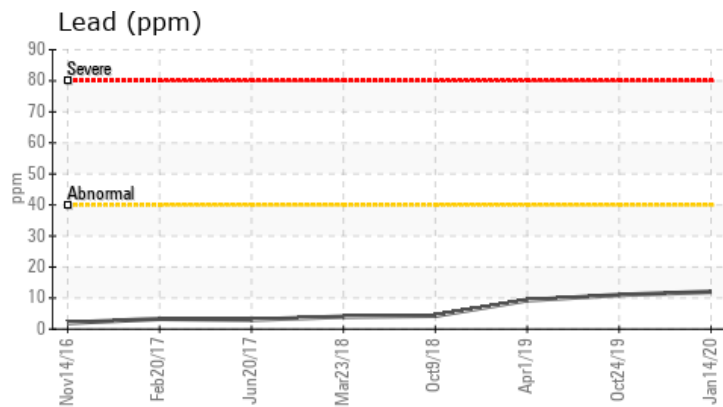
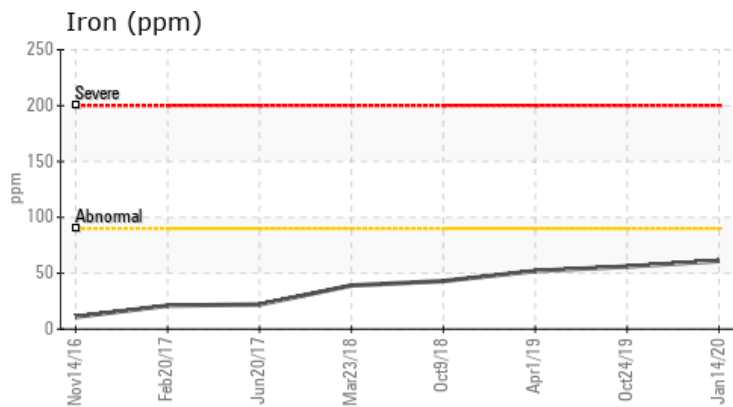
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	14	14	14
Potassium	ppm	ASTM D5185(m)	>20	1	1	<1
Fuel		ASTM D3524	>3.0	<1.0	<1.0	<1.0
Glycol		ASTM D2982		NEG	NEG	NEG
Soot %	%	ASTM D7686	>6	0.6	0.6	0.6
Nitration	Abs/cm	ASTM D7624	>20	10.5	10.2	9.6
Sulfation	Abs/.1mm	ASTM D7415	>30	27.0	25.4	23.2
Emulsified Water	scalar	Visual	>0.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		6	5	6
Boron	ppm	ASTM D5185(m)		5	4	2
Barium	ppm	ASTM D5185(m)		<1	<1	<1
Molybdenum	ppm	ASTM D5185(m)		75	74	73
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)		816	782	745
Calcium	ppm	ASTM D5185(m)		1285	1282	1284
Phosphorus	ppm	ASTM D5185(m)		1011	992	964
Zinc	ppm	ASTM D5185(m)		1246	1219	1208
Sulfur	ppm	ASTM D5185(m)		2659	2603	2659
Oxidation	Abs/.1mm	ASTM D7414	>25	18.6	18.1	18.1
Visc @ 100°C	cSt	ASTM D7279(m)		13.5	13.6	13.3



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0416891 **Received** : 07 Feb 2020
Lab Number : 02336658 **Diagnosed** : 07 Feb 2020
Unique Number : 5004077 **Diagnostician** : Kevin Marson
Test Package : MOB 1
 To discuss this sample report, contact Customer Service at 1-800-268-2131.
 (m) Denotes a modified test method, (e) Denotes a test conducted using an external laboratory.

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