



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
INTERNATIONAL 2004 16-LAPV-01-145-M (S/N 1HTTXAHR54J021379)

Component
CUMMINS Front Diesel Engine

Fluid
LUBRI-DELTA 15W40 (38 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	#6 Current	#5 History1	#4 History2
Sample Number				WC0323758	WC113763	WC110377
Sample Date				01 Apr 2019	09 Oct 2018	23 Mar 2018
Machine Age	kms			112570	108570	105070
Oil Age	kms			23773	19773	16273
Filter Age	kms			23773	19773	16273
Oil Changed				Not Changd	Not Changd	Not Changd
Filter Changed				Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185	>90	52	43	39
Chromium	ppm	ASTM D5185	>20	<1	<1	<1
Nickel	ppm	ASTM D5185	>2	<1	0	<1
Titanium	ppm	ASTM D5185	>2	<1	<1	<1
Silver	ppm	ASTM D5185	>2	0	0	<1
Aluminum	ppm	ASTM D5185	>20	3	3	2
Lead	ppm	ASTM D5185	>40	9	4	4
Copper	ppm	ASTM D5185	>330	4	3	3
Tin	ppm	ASTM D5185	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185		0	0	0

CONTAMINATION

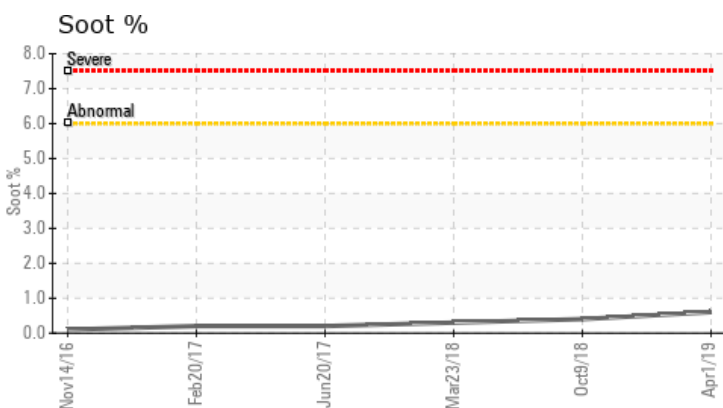
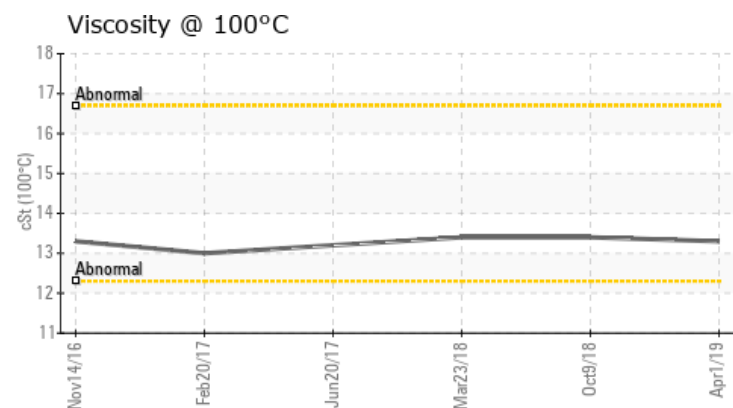
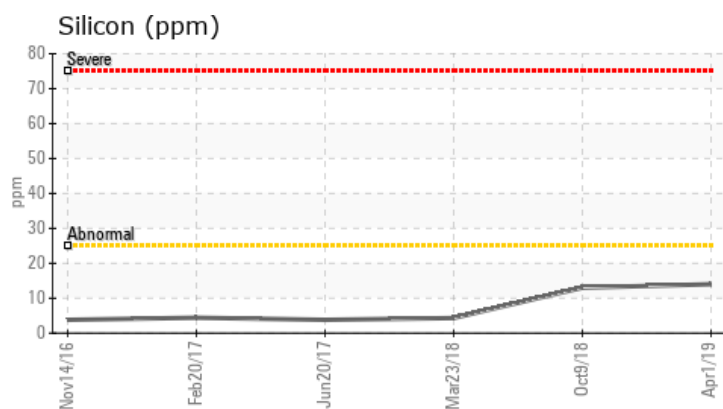
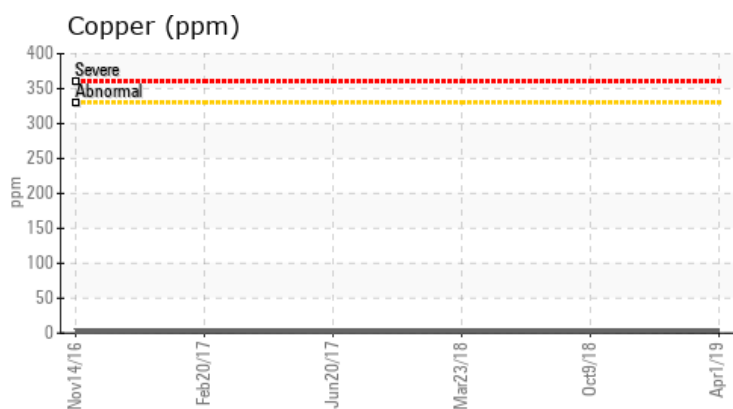
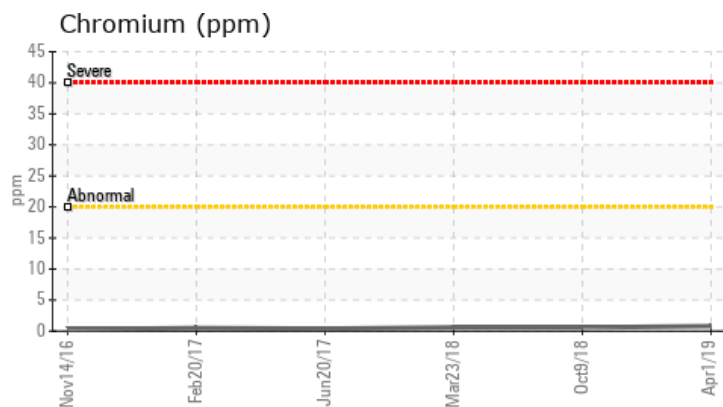
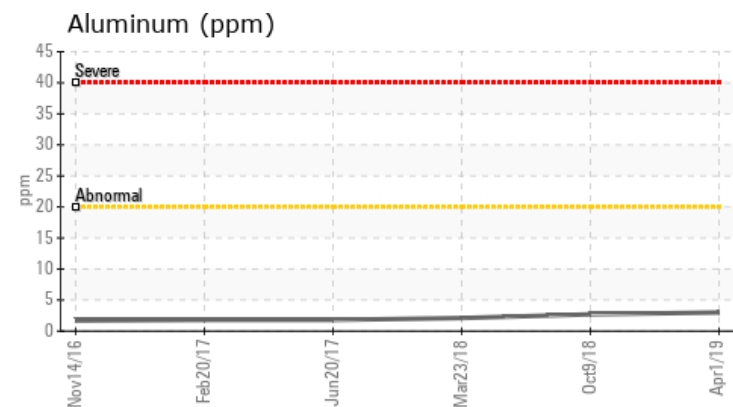
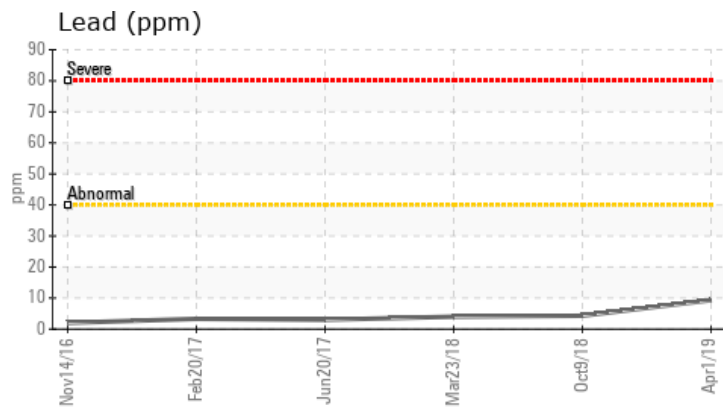
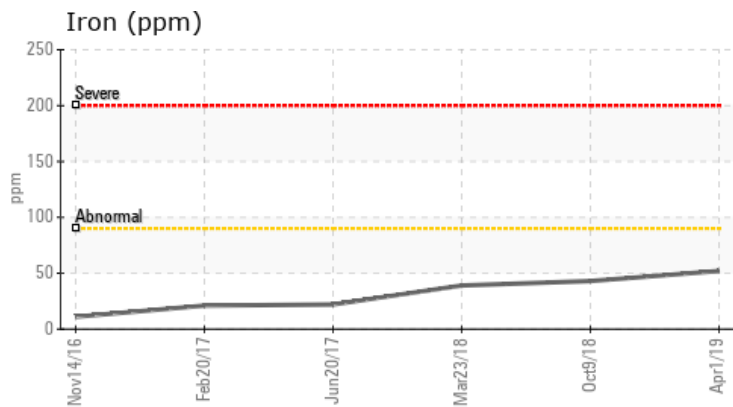
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185	>25	14	13	4
Potassium	ppm	ASTM D5185	>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	0.4	0.3
Nitration	Abs/cm	ASTM D7624	>20	9.6	8.7	8.1
Sulfation	Abs/.1mm	ASTM D7415	>30	23.2	21.2	20.8
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		6	5	5
Boron	ppm	ASTM D5185		2	1	2
Barium	ppm	ASTM D5185		<1	<1	0
Molybdenum	ppm	ASTM D5185		73	72	77
Manganese	ppm	ASTM D5185		<1	<1	<1
Magnesium	ppm	ASTM D5185		745	708	737
Calcium	ppm	ASTM D5185		1284	1225	1272
Phosphorus	ppm	ASTM D5185		964	942	987
Zinc	ppm	ASTM D5185		1208	1166	1242
Sulfur	ppm	ASTM D5185		2659	2721	2746
Oxidation	Abs/.1mm	ASTM D7414	>25	18.1	16.0	15.5
Visc @ 100°C	cSt	ASTM D7279		13.3	13.4	13.4



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0323758 **Received** : 05 Apr 2019
Lab Number : 02277657 **Diagnosed** : 22 Apr 2019
Unique Number : 4848896 **Diagnostician** : Bill Quesnel
Test Package : MOB 1

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 To change component or sample information, contact Customer Service at 1-800-268-2131.