



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

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

Component  
**CUMMINS 7600 Front Diesel Engine**

Fluid  
**DIESEL ENGINE OIL SAE 40 (38 LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	#3 Current	#2 History1	#1 History2
Sample Number				WC990734	WC972847	WC972842
Sample Date				20 Jun 2017	20 Feb 2017	14 Nov 2016
Machine Age	kms			98584	96794	92
Oil Age	kms			9787	7997	3528
Filter Age	kms			9787	7997	3528
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	22	21	11
Chromium	ppm	ASTM D5185	>20	0.4	0.5	0.3
Manganese	ppm	ASTM D5185		0.4	0.4	0.2
Nickel	ppm	ASTM D5185	>2	0.0	0.0	0.0
Titanium	ppm	ASTM D5185	>2	0.0	0.0	0.0
Silver	ppm	ASTM D5185	>2	0.0	0.0	0.0
Aluminum	ppm	ASTM D5185	>20	1.8	1.8	1.7
Lead	ppm	ASTM D5185	>40	3.0	3.3	2.0
Copper	ppm	ASTM D5185	>330	2.4	2.9	1.9
Tin	ppm	ASTM D5185	>15	0.7	0.7	0.3
Vanadium	ppm	ASTM D5185		0.0	0.0	0.0

**CONTAMINATION**

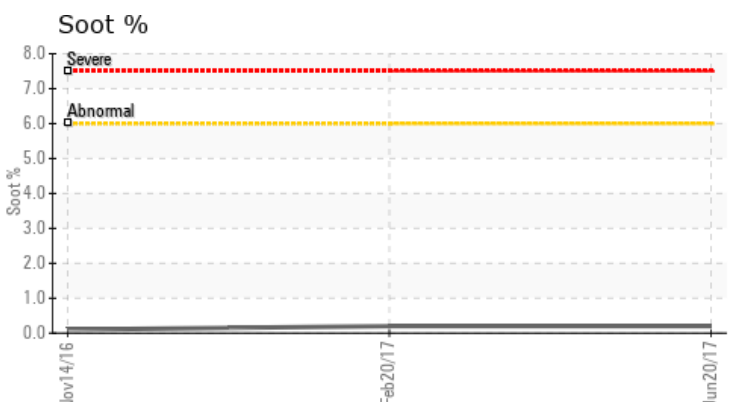
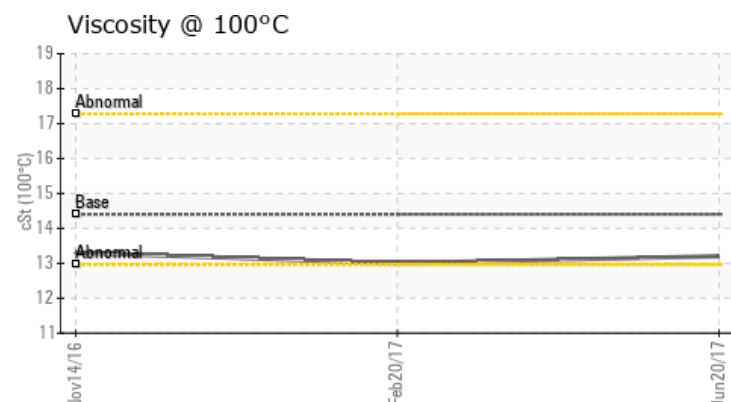
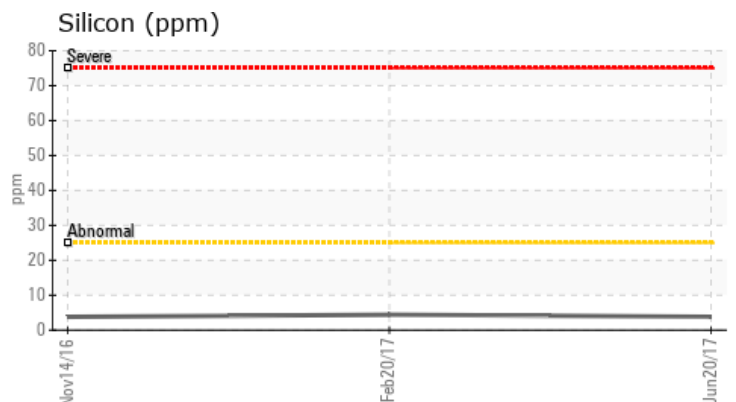
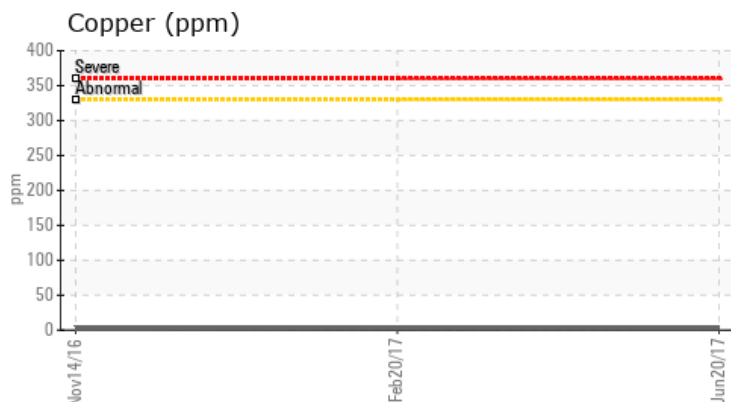
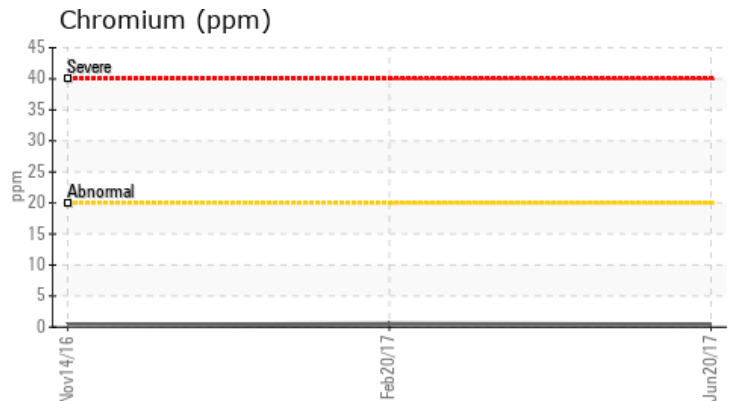
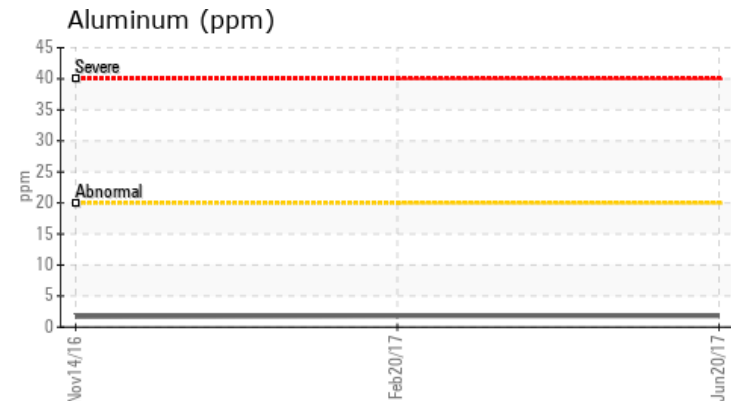
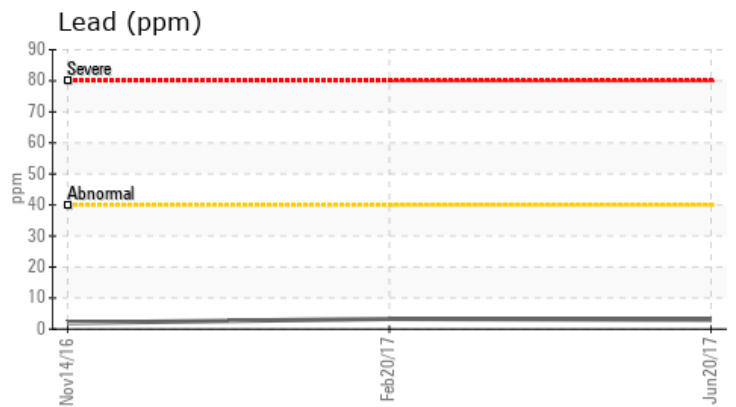
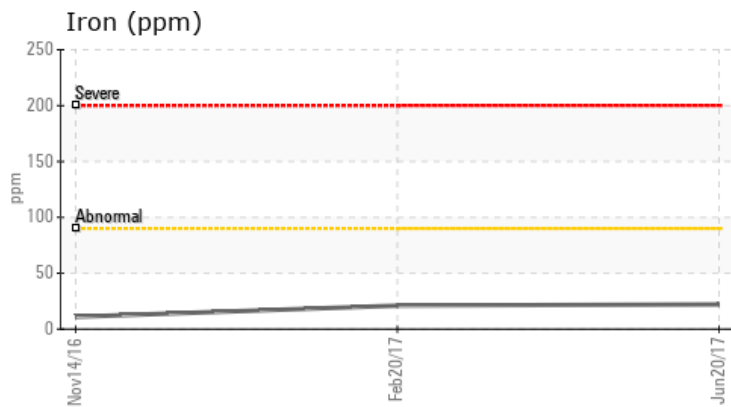
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185	>25	3.8	4.4	3.8
Potassium	ppm	ASTM D5185	>20	0.8	0.5	0.8
Fuel		ASTM D3524	>3.0	<1.0	<1.0	<1.0
Glycol		ASTM D2982		NEG	NEG	NEG
Soot %	%	ASTM D7686	>6	0.2	0.2	0.1
Nitration (PA)	%	ASTM D7624	>100	73	71	63
Sulfation (PA)	%	ASTM D7415	>100	62	61	54
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		5.2	5.6	3.7
Boron	ppm	ASTM D5185	250	2.5	2.7	1.9
Barium	ppm	ASTM D5185	10	0.1	0.1	0.1
Molybdenum	ppm	ASTM D5185	100	80	92	34
Magnesium	ppm	ASTM D5185	450	672	698	682
Calcium	ppm	ASTM D5185	3000	1348	1408	1260
Phosphorus	ppm	ASTM D5185	1150	981	1012	935
Zinc	ppm	ASTM D5185	1350	1210	1260	1143
Sulfur	ppm	ASTM D5185	4250	2852	2938	2681
Oxidation (PA)	%	ASTM D7414	>100	59	59	52
Visc @ 100°C	cSt	ASTM D7279	14.4	13.2	13.0	13.3



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC990734 **Received** : 26 Jun 2017  
**Lab Number** : 02153920 **Diagnosed** : 02 Apr 2018  
**Unique Number** : 4524881 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1

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