



OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**2006 DODGE CARAVAN 16-GINC-01-001-M (S/N 1D4GP25R46B655775)**

Component  
**3.3L V6 Gasoline Engine**

Fluid  
**PENZOIL SUPER 5W20 (5 LTR)**

**#2 #1**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number				<b>WC112695</b>	WC972840	---
Sample Date				<b>10 Sep 2018</b>	08 Nov 2016	---
Machine Age	kms			<b>108784</b>	95311	---
Oil Age	kms			<b>13229</b>	6442	---
Filter Age	kms			<b>13229</b>	6442	---
Oil Changed				<b>Not Changd</b>	Not Changd	---
Filter Changed				<b>Not Changd</b>	Not Changd	---
Sample Status				<b>NORMAL</b>	NORMAL	---

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185	>150	<b>9.0</b>	3.5	---
Chromium	ppm	ASTM D5185	>8	<b>0.8</b>	0.2	---
Nickel	ppm	ASTM D5185	>5	<b>0.1</b>	0.1	---
Titanium	ppm	ASTM D5185		<b>0.0</b>	0.0	---
Silver	ppm	ASTM D5185		<b>0.0</b>	0.0	---
Aluminum	ppm	ASTM D5185	>60	<b>3.4</b>	1.2	---
Lead	ppm	ASTM D5185	>75	<b>6.9</b>	0.5	---
Copper	ppm	ASTM D5185	>75	<b>12</b>	7.4	---
Tin	ppm	ASTM D5185	>15	<b>0.0</b>	0.0	---
Vanadium	ppm	ASTM D5185		<b>0.0</b>	0.0	---

**CONTAMINATION**

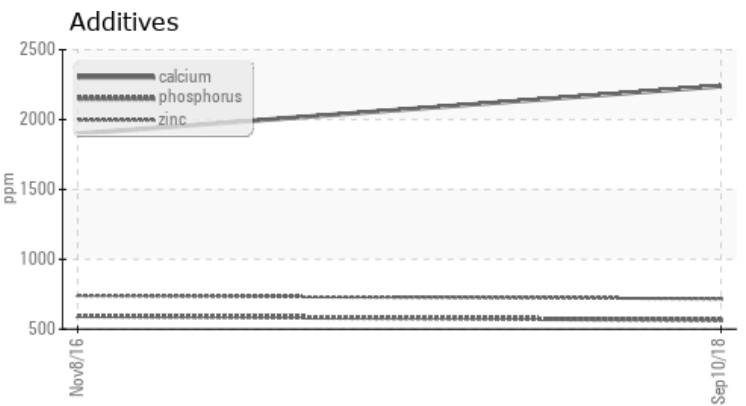
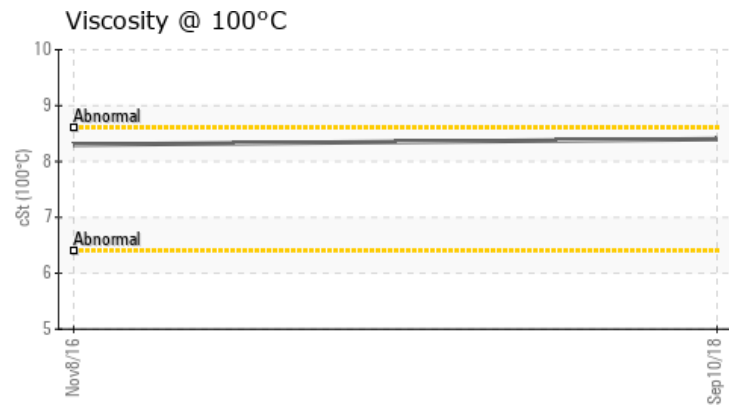
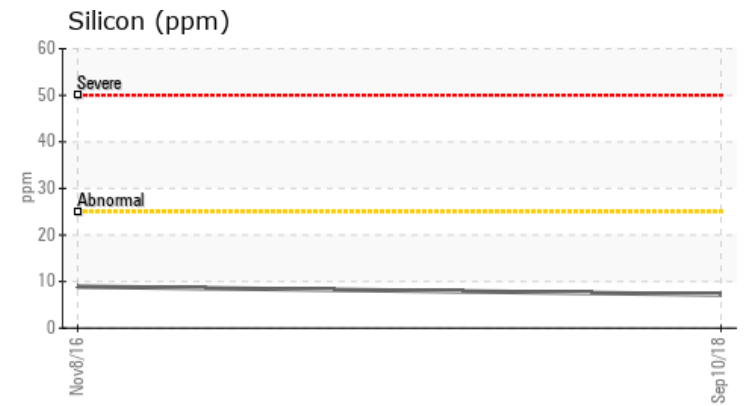
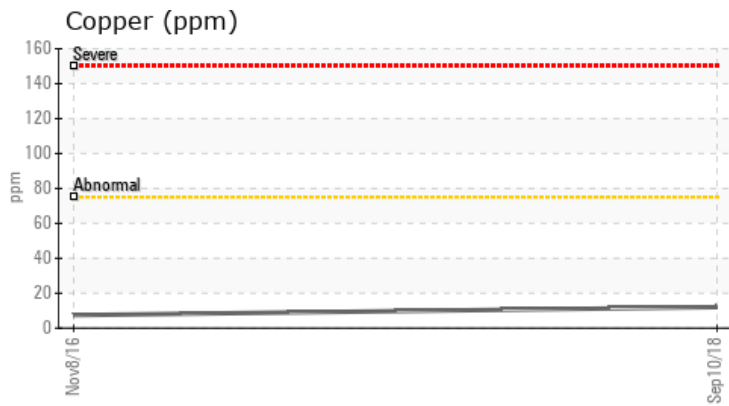
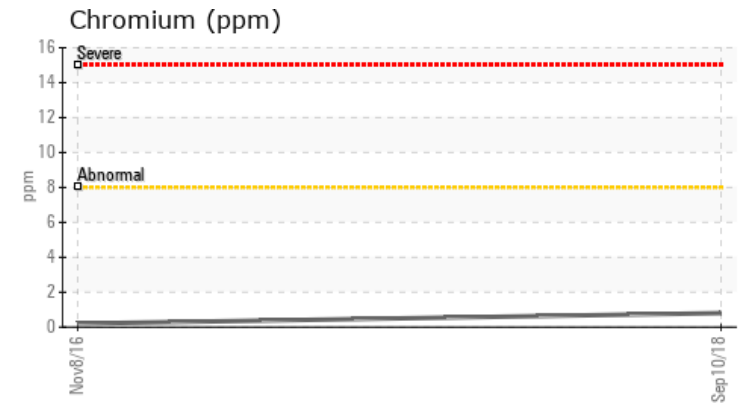
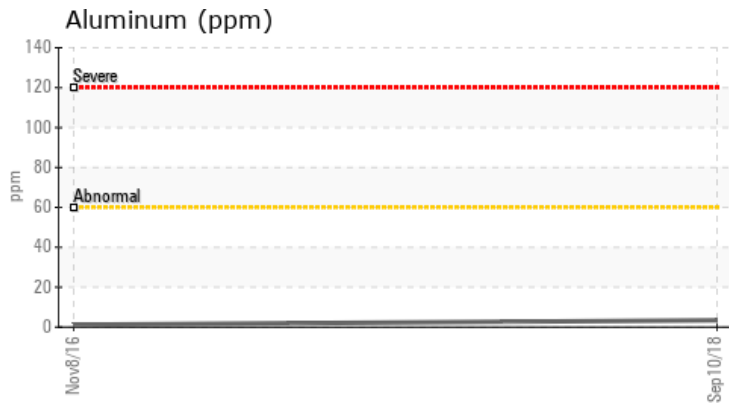
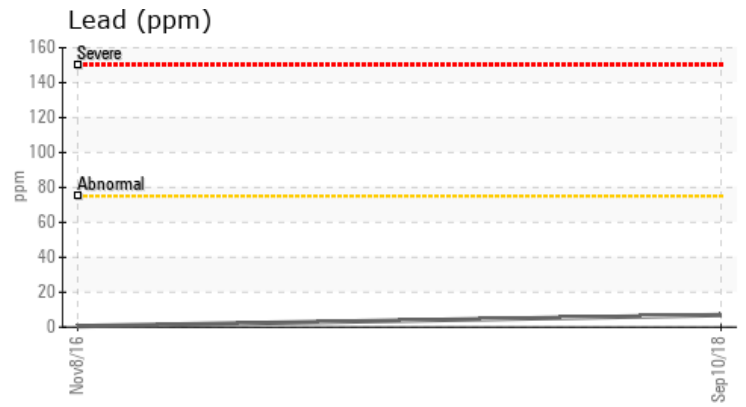
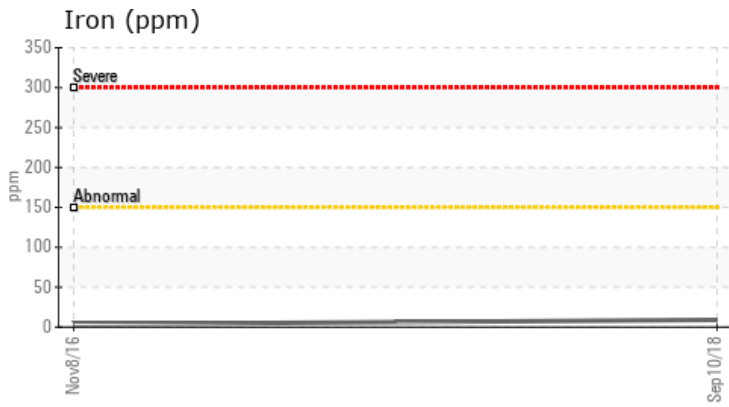
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185	>25	<b>7.2</b>	8.9	---
Potassium	ppm	ASTM D5185	>20	<b>0.6</b>	0.8	---
Fuel		ASTM D3524	>4.0	<b>&lt;1.0</b>	<1.0	---
Glycol		ASTM D2982		<b>NEG</b>	NEG	---
Soot %	%	ASTM D7686		<b>0</b>	0	---
Nitration	Abs/.1mm	ASTM D7624	>20	<b>11.9</b>	8.1	---
Sulfation	Abs/.1mm	ASTM D7415	>35	<b>24.6</b>	21.2	---
Emulsified Water	scalar	Visual	>0.1	<b>NEG</b>	NEG	---

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185		<b>8.3</b>	6.0	---
Boron	ppm	ASTM D5185		<b>6.5</b>	49	---
Barium	ppm	ASTM D5185		<b>0.0</b>	0.1	---
Molybdenum	ppm	ASTM D5185		<b>125</b>	125	---
Manganese	ppm	ASTM D5185		<b>0.8</b>	0.2	---
Magnesium	ppm	ASTM D5185		<b>12</b>	17	---
Calcium	ppm	ASTM D5185		<b>2240</b>	1899	---
Phosphorus	ppm	ASTM D5185		<b>565</b>	595	---
Zinc	ppm	ASTM D5185		<b>717</b>	739	---
Sulfur	ppm	ASTM D5185		<b>1859</b>	1551	---
Oxidation	Abs/.1mm	ASTM D7414	>25	<b>18.1</b>	10.9	---
Visc @ 40°C	cSt	ASTM D7279		<b>48.5</b>	---	---
Visc @ 100°C	cSt	ASTM D7279		<b>8.4</b>	8.3	---
Viscosity Index (VI)	Scale	ASTM D2270		<b>149</b>	---	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC112695 **Received** : 18 Sep 2018  
**Lab Number** : 02239949 **Diagnosed** : 18 Sep 2018  
**Unique Number** : 4747112 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: KV40, VI )

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