



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**DODGE JOURNEY 2010 16-LARR-01-001-M (S/N 3D4PG5FV9A7210937)**

Component  
**ENGINE V6 3.5L Front Gasoline Engine**

Fluid  
**CASTROL 10W30 (5 LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	#5 Current	#4 History1	#3 History2
Sample Number				WC110372	WC103204	WC990731
Sample Date				10 Feb 2018	07 Sep 2017	10 Jun 2017
Machine Age	kms			253916	243027	233575
Oil Age	kms			49044	38155	28703
Filter Age	kms			49044	38155	28703
Oil Changed				Not Changed	Not Changd	Not Changd
Filter Changed				Not Changed	Not Changed	Not Changed
Sample Status				NORMAL	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185	>150	30	18	20
Chromium	ppm	ASTM D5185	>8	1.4	0.9	0.9
Manganese	ppm	ASTM D5185		0.5	0.4	0.4
Nickel	ppm	ASTM D5185	>5	1.4	0.4	0.3
Titanium	ppm	ASTM D5185		0.3	0.2	0.1
Silver	ppm	ASTM D5185		0.0	0.0	0.0
Aluminum	ppm	ASTM D5185	>60	20	15	17
Lead	ppm	ASTM D5185	>75	0.3	0.3	0.2
Copper	ppm	ASTM D5185	>75	12	9.2	9.6
Tin	ppm	ASTM D5185	>15	0.1	0.0	0.1
Vanadium	ppm	ASTM D5185		0.3	0.2	0.2

**CONTAMINATION**

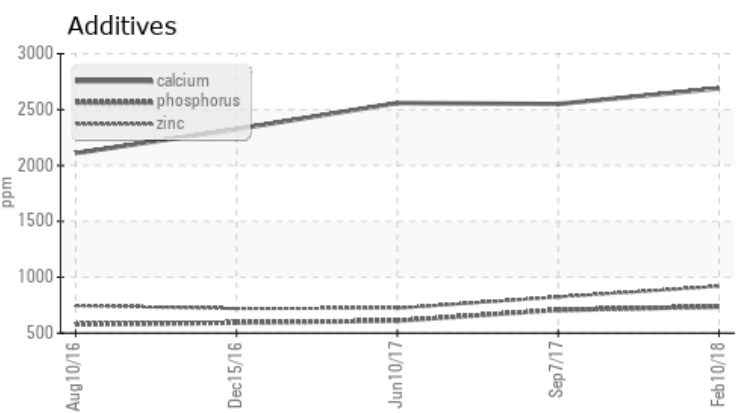
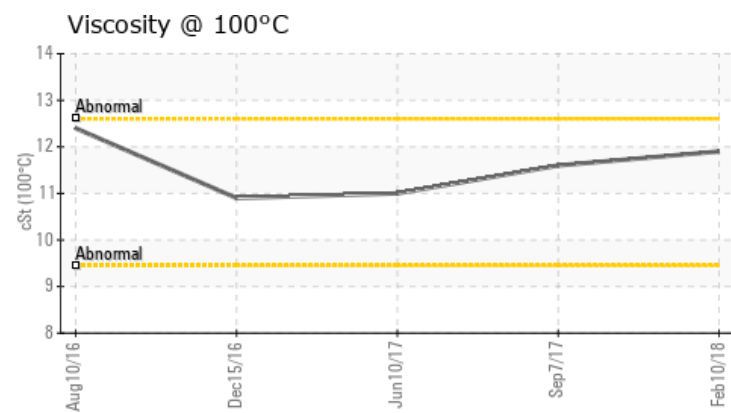
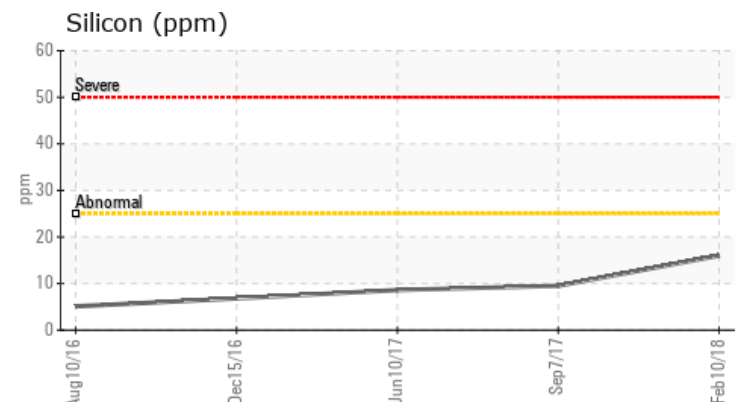
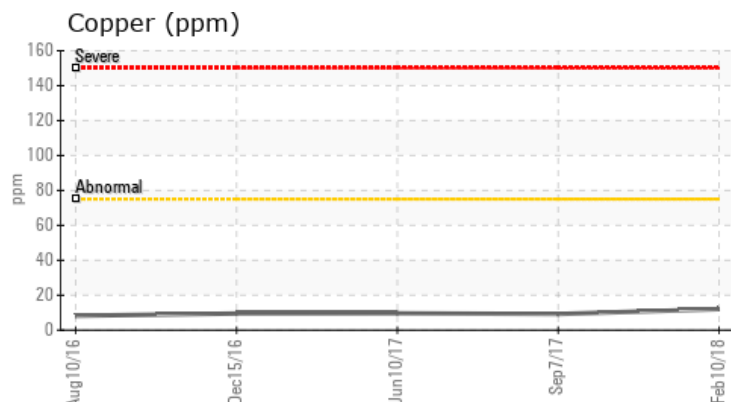
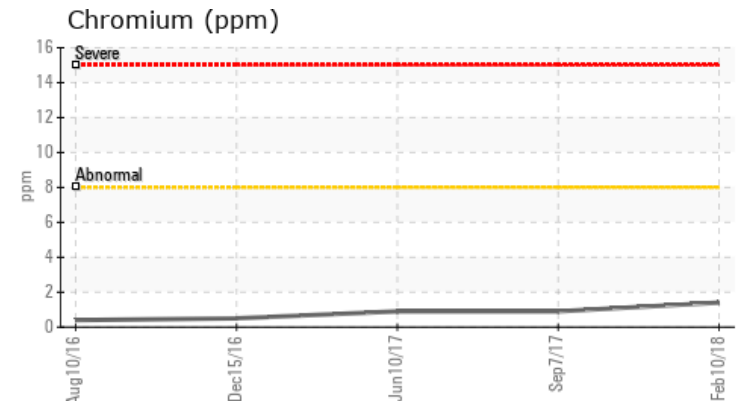
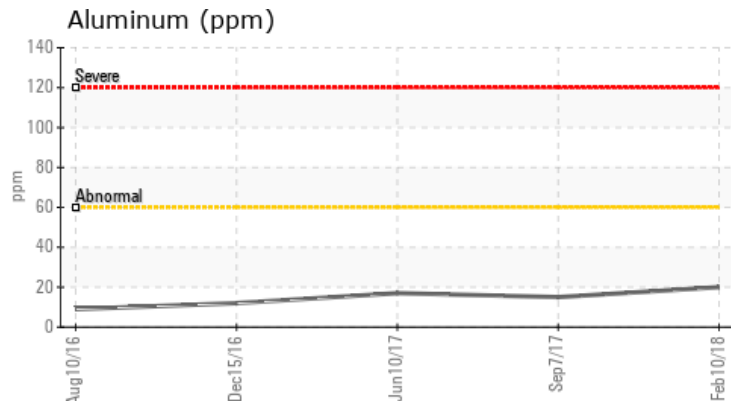
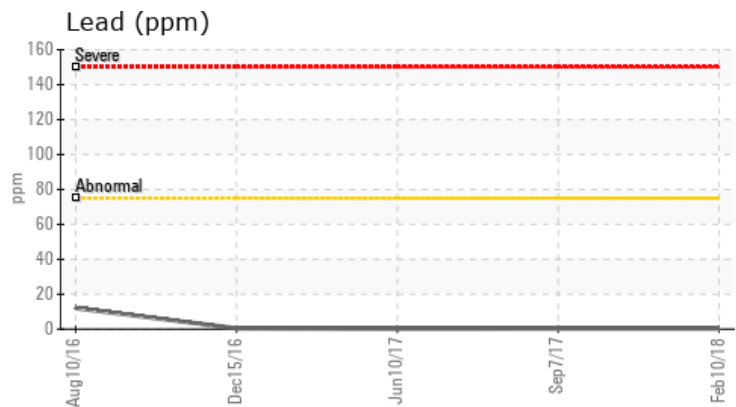
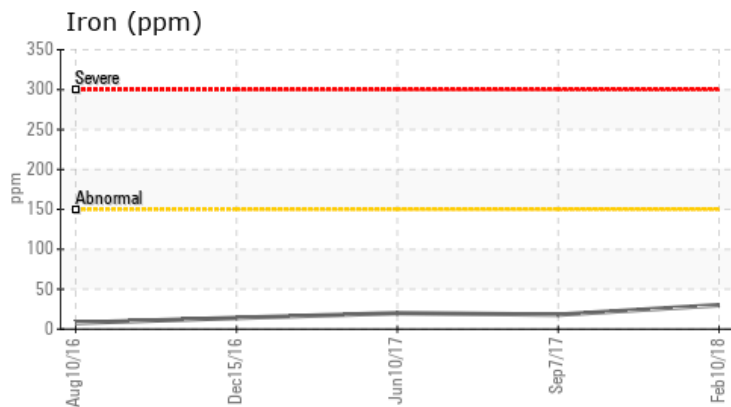
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185	>25	16	9.5	8.6
Potassium	ppm	ASTM D5185	>20	1.6	1.0	0.6
Fuel		ASTM D3524	>4.0	<1.0	<1.0	<1.0
Glycol		ASTM D2982		NEG	NEG	NEG
Soot %	%	ASTM D7686		0	0	0
Nitration (PA)	%	ASTM D7624	>100	72	65	61
Sulfation (PA)	%	ASTM D7415	>100	82	79	74
Emulsified Water	scalar	Visual	>0.1	NEG	NEG	NEG

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185		7.5	5.8	6.2
Boron	ppm	ASTM D5185		34	36	37
Barium	ppm	ASTM D5185		0.0	0.1	0.1
Molybdenum	ppm	ASTM D5185		161	105	122
Magnesium	ppm	ASTM D5185		15	12	12
Calcium	ppm	ASTM D5185		2690	2550	2559
Phosphorus	ppm	ASTM D5185		737	707	610
Zinc	ppm	ASTM D5185		919	823	723
Sulfur	ppm	ASTM D5185		2429	2304	2333
Oxidation (PA)	%	ASTM D7414	>100	98	75	69
Visc @ 100°C	cSt	ASTM D7279		11.9	11.6	11.0



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC110372  
**Lab Number** : 02198627  
**Unique Number** : 4641744  
**Test Package** : MOB 1  
**Received** : 14 Feb 2018  
**Diagnosed** : 20 Feb 2018  
**Diagnostician** : Kevin Marson

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