



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ABNORMAL

Machine Id  
**PRO2 TRUCK 18-MCG-R-01-001-M**

Component  
**CHEVY 407 CU IN 725 HP PRO POWER Front Gasoline Engine**

Fluid  
**VALVOLINE VR-1 RACING MOTOR OIL SAE 20W50 (15 LTR)**



PRODUIT : ZP-700 ADDITIF MOTEUR  
Cas d'étude #06-a / 2de2

## RECOMMENDATION

Texte & Soulignement en bleu par Adrenalube

The oil change at the time of sampling has been noted. We recommend an early resample to confirm this situation, however, a minimum of 10 hours, 500 miles or 800 kilometers on the oil is required before resampling to prevent false positive glycol reactions that can be experienced with new oil. NOTE: Although the glycol test was positive other chemicals other than anti-freeze can cause a similar reaction including the oil additive package, or supplemental oil additives. As there is insufficient evidence (such as high wear metals, or the presence of water) to indicate a serious leak, no other maintenance actions, aside from those recommended here, should be carried out at this time.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number				<b>WC113340</b>	WC112693	WC112686
Sample Date				<b>17 Sep 2018</b>	05 Sep 2018	06 Aug 2018
Machine Age	hrs			<b>6</b>	6	4
Oil Age	hrs			<b>1</b>	1	0
Filter Age	hrs			<b>1</b>	1	0
Oil Changed				<b>Changed</b>	Changed	Changed
Filter Changed				<b>Changed</b>	Changed	Changed
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

## WEAR

All component wear rates are normal.

**History2 : baisse des métaux d'usure se poursuit**  
**History1 & Current : légère augmentation sur les métaux d'usure.**

**NOTE : Dans ce type de course, 'Trophy Truck Pro2 Racing', les moteurs sont utilisés pour une durée de 4 courses tout au plus. Ce moteur a servi pour les 7 courses de la saison.**

Iron	ppm	ASTM D5185	>150	<b>91</b>	106	66
Chromium	ppm	ASTM D5185	>20	<b>6.5</b>	7.3	4.3
Nickel	ppm	ASTM D5185	>5	<b>0.2</b>	0.8	0.2
Titanium	ppm	ASTM D5185		<b>27</b>	24	19
Silver	ppm	ASTM D5185	>2	<b>0.0</b>	0.0	0.0
Aluminum	ppm	ASTM D5185	>40	<b>27</b>	37	23
Lead	ppm	ASTM D5185	>50	<b>715</b>	871	618
Copper	ppm	ASTM D5185	>155	<b>16</b>	39	29
Tin	ppm	ASTM D5185	>10	<b>0.0</b>	0.0	0.0
Vanadium	ppm	ASTM D5185		<b>0.3</b>	0.3	0.2
White Metal	scalar	Visual	NONE	<b>LIGHT</b>	NONE	LIGHT
Babbitt	scalar	Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

Test for glycol is positive. Light fuel dilution occurring.

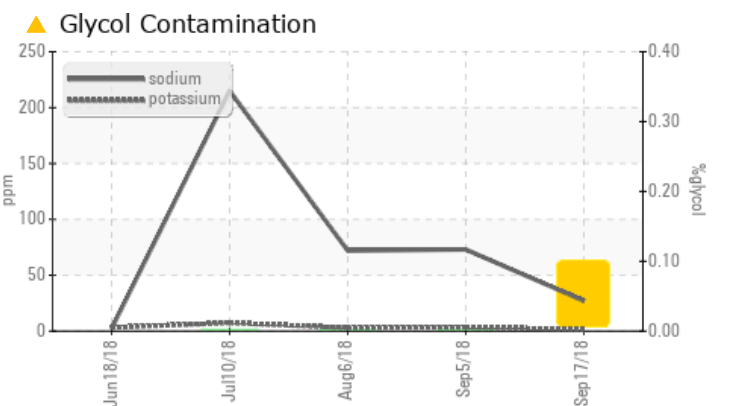
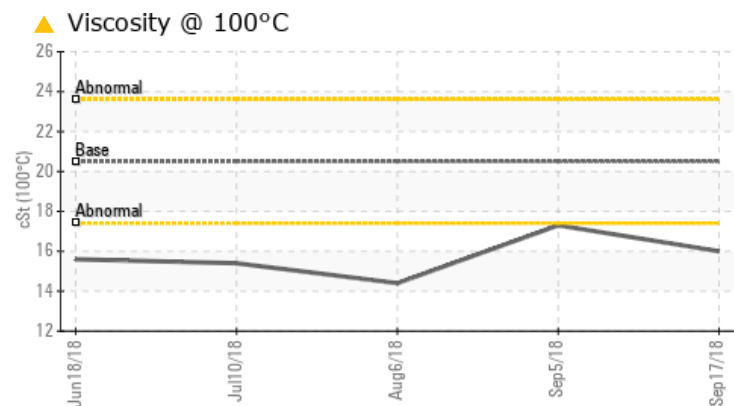
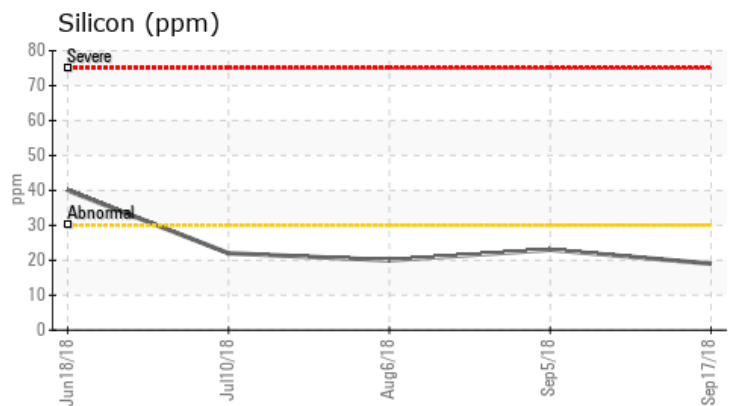
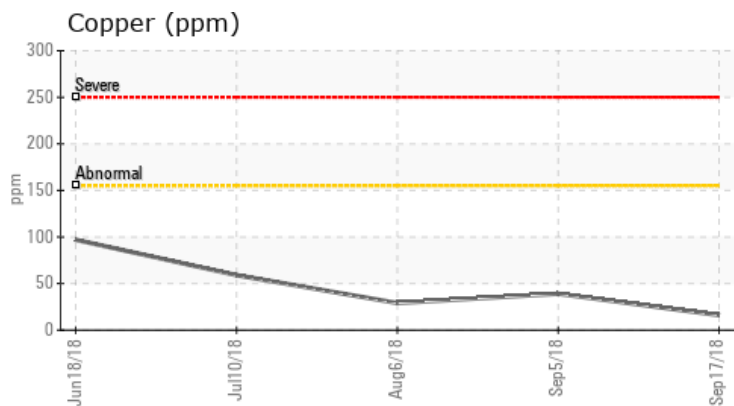
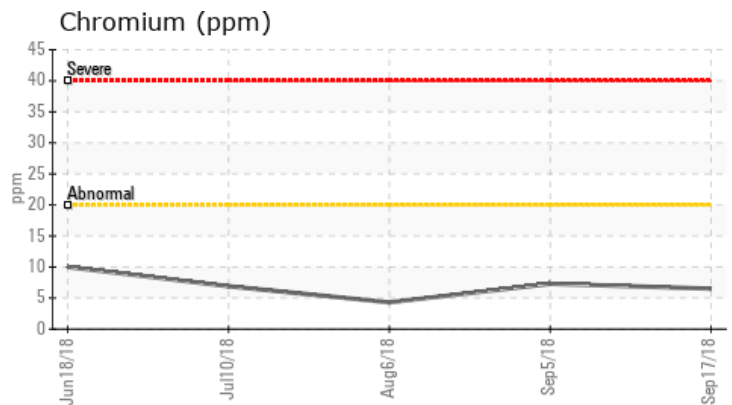
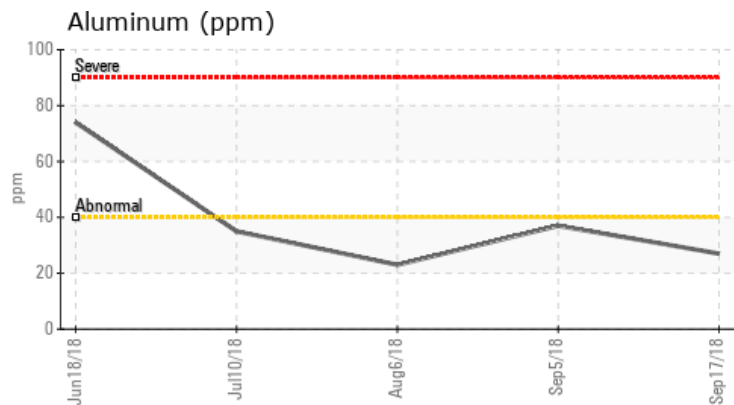
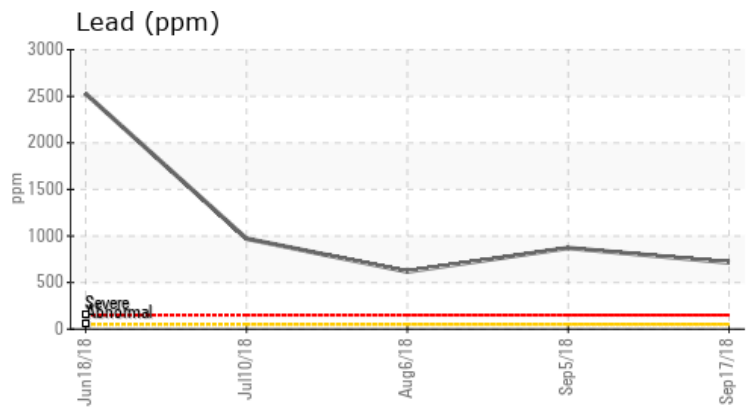
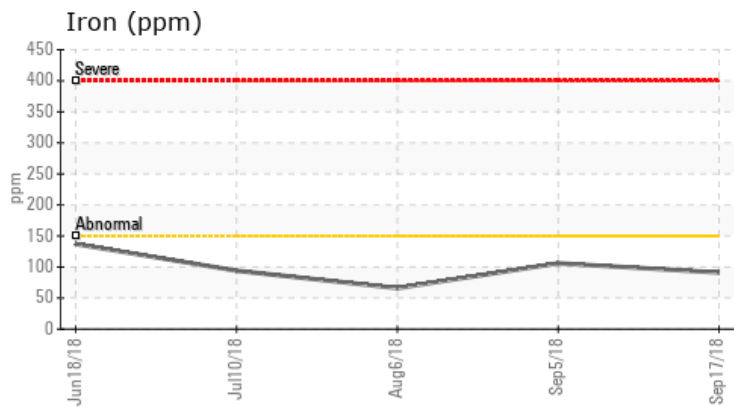
Silicon	ppm	ASTM D5185	>30	<b>19</b>	23	20
Potassium	ppm	ASTM D5185	>20	<b>1.4</b>	3.5	2.9
Fuel	%	ASTM D3524	>4.0	<b>▲ 3.6</b>	▲ 2.4	▲ 4.1
Glycol	%	ASTM D2982		<b>▲ 0.10</b>	0.0	0.0
Soot %	%	ASTM D7686		<b>0</b>	0	0
Nitration	Abs/.1mm	ASTM D7624	>20	<b>6.3</b>	6.5	6.8
Sulfation	Abs/.1mm	ASTM D7415	>35	<b>15.8</b>	17.5	19.4
Silt	scalar	Visual	NONE	<b>NONE</b>	LIGHT	NONE
Debris	scalar	Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual	>0.2	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

Fuel is present in the oil and is lowering the viscosity. The condition of the oil is acceptable for the time in service (see recommendation).

**Oxydation et Viscosité : les niveaux respectifs se maintiennent à un seuil beaucoup plus acceptable considérant la chaleur, la pression et l'usure qui se manifestent durant l'opération de ce type de moteur.**

Sodium	ppm	ASTM D5185		<b>27</b>	73	72
Boron	ppm	ASTM D5185		<b>178</b>	155	128
Barium	ppm	ASTM D5185		<b>0.0</b>	0.0	0.0
Molybdenum	ppm	ASTM D5185		<b>153</b>	70	79
Manganese	ppm	ASTM D5185		<b>0.7</b>	0.9	0.6
Magnesium	ppm	ASTM D5185		<b>694</b>	609	506
Calcium	ppm	ASTM D5185	1910	<b>1153</b>	1260	1278
Phosphorus	ppm	ASTM D5185	1300	<b>1047</b>	1121	1131
Zinc	ppm	ASTM D5185	1400	<b>1266</b>	1310	1285
Sulfur	ppm	ASTM D5185		<b>3251</b>	3545	3453
Oxidation	Abs/.1mm	ASTM D7414	>25	<b>10.5</b>	11.6	15.4
Visc @ 100°C	cSt	ASTM D7279	20.5	<b>▲ 16.0</b>	▲ 17.3	▲ 14.4



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC113340 **Received** : 18 Sep 2018  
**Lab Number** : 02239948 **Diagnosed** : 19 Sep 2018  
**Unique Number** : 4747111 **Diagnostician** : Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: FuelDilution, Glycol, PercentFuel, Visual )

**9042628 Canada Inc**  
 3755 - E Boul Matte  
 Brossard, QC  
 Canada J4Y 2P4  
 Contact: Pierre Beauchamp  
 support-tech@adrenalube.com  
 T: (514)999-5546  
 F:

To discuss diagnosis or test data, contact Technical Support at 1-800-268-2131.  
 To change component or sample information, contact Customer Service at 1-800-268-2131.