



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ABNORMAL

Machine Id
PRO2 TRUCK 18-MCGR-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)

ADRENALUBE
PRODUIT : ZP-700 ADDITIF MOTEUR
Cas d'étude #06-a / 1de2

RECOMMENDATION

Texte & Soulignement en bleu par Adrenalube

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Commentaires : Durée d'une course / +/- 45 minutes

History2 : Résultat sans faire l'usage de ZP-700.
History1 & Current : Ajout de 750ml de ZP-700 (5%).

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number				WC112686	WC112672	WC111755
Sample Date				06 Aug 2018	10 Jul 2018	18 Jun 2018
Machine Age	hrs			4	0	3
Oil Age	hrs			0	46	1
Filter Age	hrs			0	46	1
Oil Changed				Changed	Changed	Changed
Filter Changed				Changed	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	MARGINAL

WEAR

All component wear rates are normal.

History2 vs History1 : baisse des métaux d'usure (%)

Iron / Fe : Fer - 31%
Chromium / Ch : Chrome - 31%
Nickel / Ni : Nickel - 46%
Aluminum / Al : Aluminium - 52%
Lead / Pb : Plomb - 71%
Copper / Cu : Cuivre - 39%

Iron	ppm	ASTM D5185	>150	66	94	137
Chromium	ppm	ASTM D5185	>20	4.3	6.9	10
Nickel	ppm	ASTM D5185	>5	0.2	0.8	1.5
Titanium	ppm	ASTM D5185		19	0.7	1.4
Silver	ppm	ASTM D5185	>2	0.0	0.0	0.0
Aluminum	ppm	ASTM D5185	>40	23	35	74
Lead	ppm	ASTM D5185	>50	618	971	2528
Copper	ppm	ASTM D5185	>155	29	59	97
Tin	ppm	ASTM D5185	>10	0.0	0.0	0.0
Vanadium	ppm	ASTM D5185		0.2	0.0	0.0
White Metal	scalar	Visual	NONE	LIGHT	---	LIGHT
Babbitt	scalar	Visual	NONE	NONE	---	NONE

CONTAMINATION

There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Silicon	ppm	ASTM D5185	>30	20	22	40
Potassium	ppm	ASTM D5185	>20	2.9	7.3	3.2
Fuel	%	ASTM D3524	>4.0	4.1	2.9	2.6
Glycol	%	ASTM D2982		0.0	0.0	NEG
Soot %	%	ASTM D7686		0	0	0
Nitration (PA)	%	ASTM D7624	>100	30	23	24
Sulfation (PA)	%	ASTM D7415	>100	44	63	125
Silt	scalar	Visual	NONE	NONE	---	VLITE
Debris	scalar	Visual	NONE	NONE	---	VLITE
Sand/Dirt	scalar	Visual	NONE	NONE	---	NONE
Appearance	scalar	Visual	NORML	NORML	---	NORML
Odor	scalar	Visual	NORML	NORML	---	NORML
Emulsified Water	scalar	Visual	>0.2	NEG	NEG	NEG

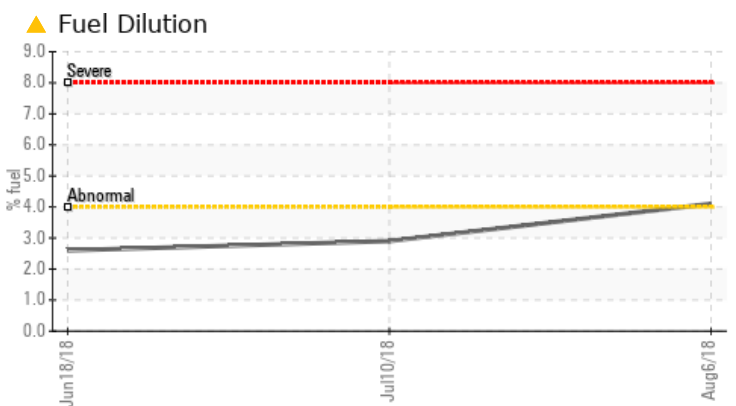
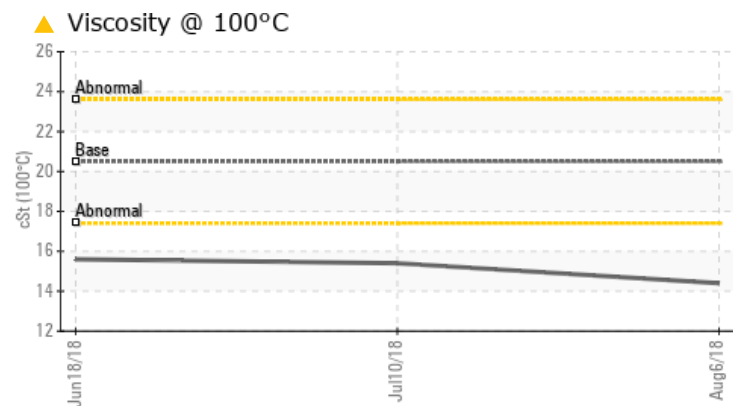
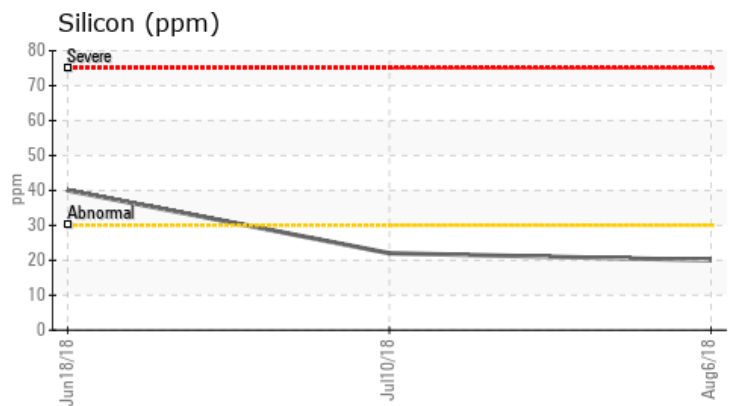
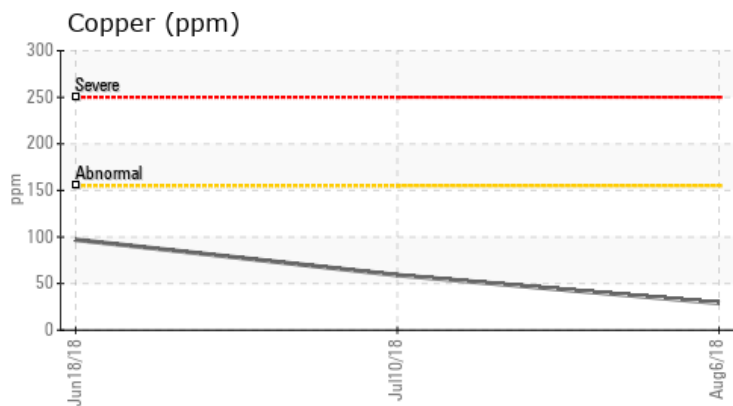
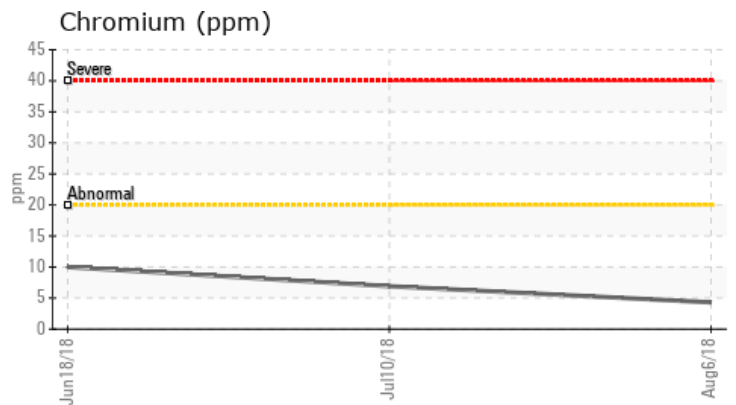
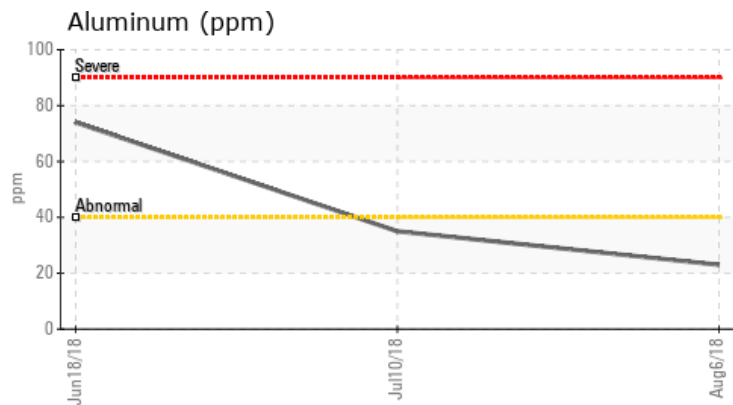
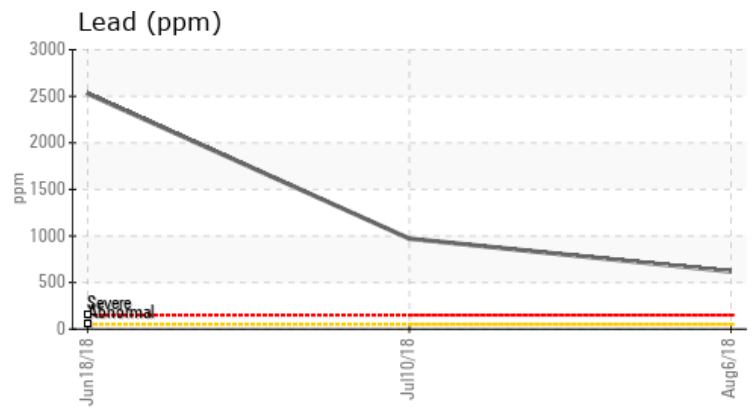
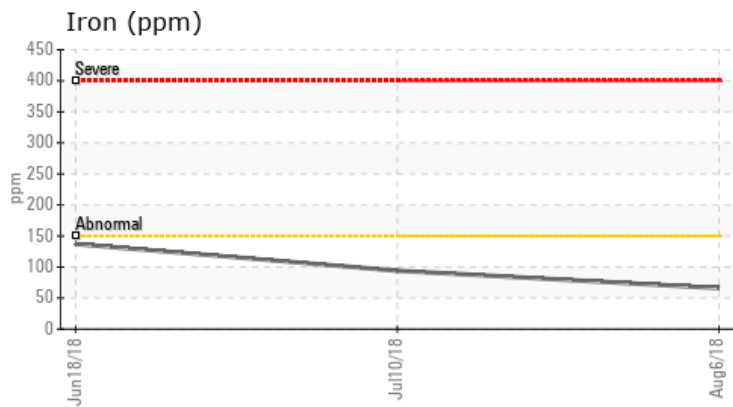
FLUID CONDITION

Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

History 2 : L'oxydation à atteint 214%. Autrement dit, les propriétés de l'huile furent détruites en 15 - 20 minutes.

History 1 & Current montrent une amélioration significative au niveau de l'oxydation, conséquence directe liée à la réduction des métaux d'usure.

Sodium	ppm	ASTM D5185		72	215	2.2
Boron	ppm	ASTM D5185		128	4.0	13
Barium	ppm	ASTM D5185		0.0	0.0	0.0
Molybdenum	ppm	ASTM D5185		79	101	1.3
Manganese	ppm	ASTM D5185		0.6	1.2	1.1
Magnesium	ppm	ASTM D5185		506	11	12
Calcium	ppm	ASTM D5185	1910	1278	1799	1942
Phosphorus	ppm	ASTM D5185	1300	1131	1082	1286
Zinc	ppm	ASTM D5185	1400	1285	1285	1521
Sulfur	ppm	ASTM D5185		3453	3095	3605
Oxidation (PA)	%	ASTM D7414	>100	51	88	214
Visc @ 100°C	cSt	ASTM D7279	20.5	14.4	15.4	15.6



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC112686 **Received** : 13 Aug 2018
Lab Number : 02233374 **Diagnosed** : 14 Aug 2018
Unique Number : 4732528 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: FuelDilution, Glycol, PercentFuel, Visual)

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