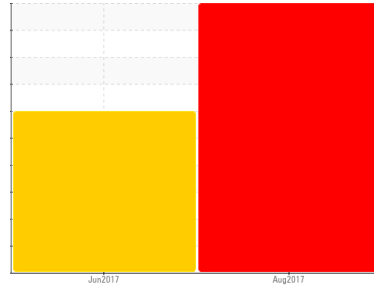




OIL ANALYSIS REPORT

Sample Rating Trend



VISUAL METAL



Machine Id
CHEVROLET 2006Z06

Component
Gasoline Engine
Fluid
SAE 5W30 (8 LTR)

DIAGNOSIS

Recommendation

We advise that you check for visible metal particles in the oil. Due to this condition we recommend the following action... We recommend that you drain the oil from the component if this has not already been done. We advise an early resample to confirm this situation. Advise you send the oil filter for a more detailed analysis of the wear situation that is occurring in this component.

Wear

Moderate concentration of visible metal present.

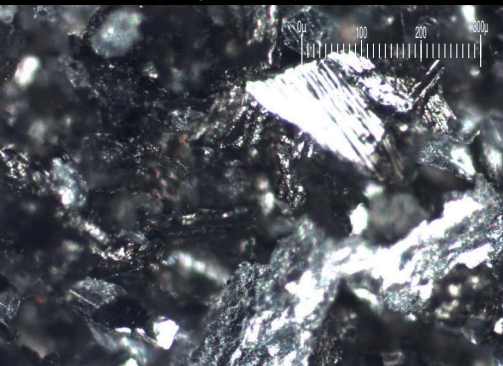
Contamination

Test for glycol is positive.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Particle Filter (Magn: 100 x)



SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			WC100139	WC988843	---
Sample Date	Client Info			14 Aug 2017	19 Jun 2017	---
Machine Age	kms	Client Info		4500	62284	---
Oil Age	kms	Client Info		1000	0	---
Oil Changed	Client Info			N/A	Changed	---
Sample Status				SEVERE	ABNORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method		>4.0	<1.0	<1.0	---

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		28	54	---
Iron	ppm	ASTM D5185(m)	>150	120	▲ 176	---
Chromium	ppm	ASTM D5185(m)	>20	2	3	---
Nickel	ppm	ASTM D5185(m)	>5	<1	1	---
Titanium	ppm	ASTM D5185(m)		18	6	---
Silver	ppm	ASTM D5185(m)	>2	0	0	---
Aluminum	ppm	ASTM D5185(m)	>40	26	18	---
Lead	ppm	ASTM D5185(m)	>50	11	2	---
Copper	ppm	ASTM D5185(m)	>155	9	20	---
Tin	ppm	ASTM D5185(m)	>10	4	3	---
Antimony	ppm	ASTM D5185(m)		<1	1	---
Vanadium	ppm	ASTM D5185(m)		1	<1	---
Beryllium	ppm	ASTM D5185(m)		0	0	---
Cadmium	ppm	ASTM D5185(m)		0	0	---

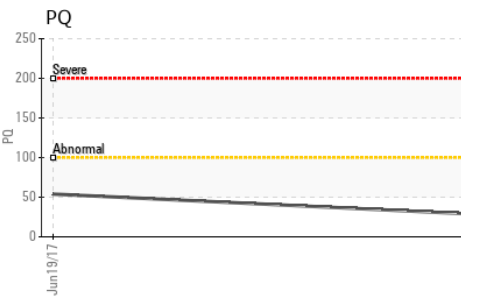
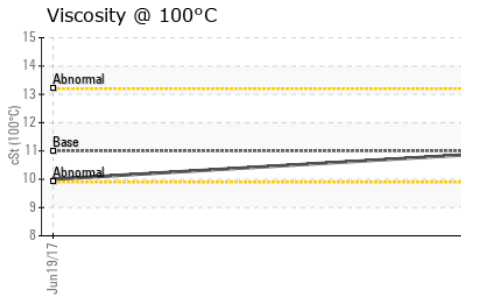
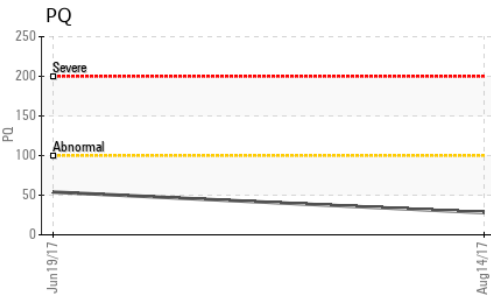
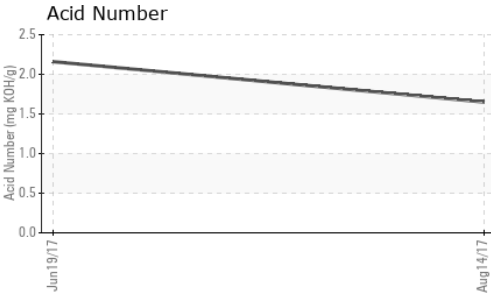
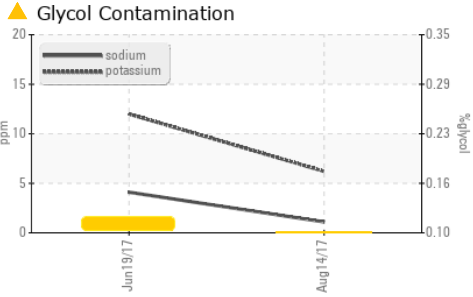
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		80	78	---
Barium	ppm	ASTM D5185(m)		<1	1	---
Molybdenum	ppm	ASTM D5185(m)		69	74	---
Manganese	ppm	ASTM D5185(m)		3	5	---
Magnesium	ppm	ASTM D5185(m)		710	732	---
Calcium	ppm	ASTM D5185(m)		1057	1136	---
Phosphorus	ppm	ASTM D5185(m)		628	652	---
Zinc	ppm	ASTM D5185(m)		761	789	---
Sulfur	ppm	ASTM D5185(m)		1671	1659	---
Lithium	ppm	ASTM D5185(m)		<1	<1	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>30	14	27	---
Sodium	ppm	ASTM D5185(m)	>400	1	4	---
Potassium	ppm	ASTM D5185(m)	>20	▲ 6	▲ 12	---
Glycol	%	ASTM D7922*		▲ 0.10	▲ 0.12	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		0	0	---
Nitration	Abs/cm	ASTM D7624*		8.7	10.6	---
Sulfation	Abs./1mm	ASTM D7415*		19.5	20.0	---



OIL ANALYSIS REPORT

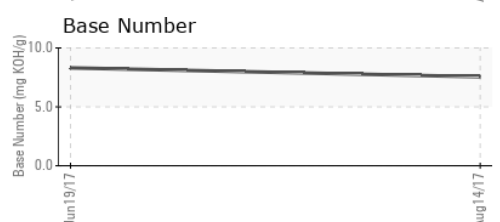
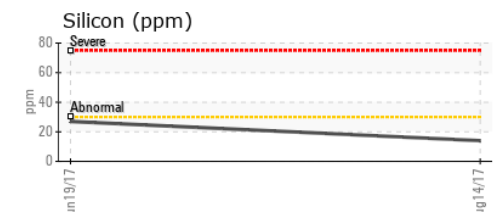
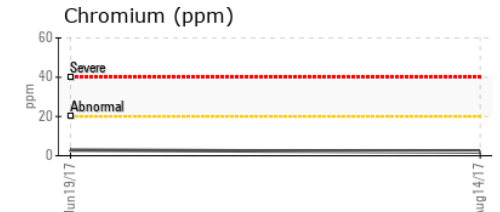
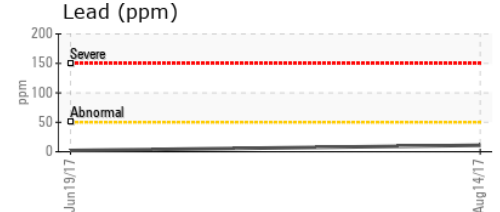
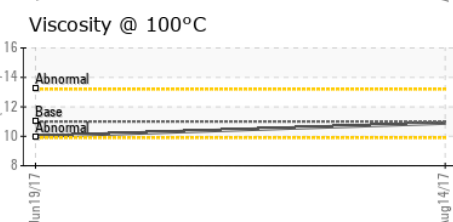
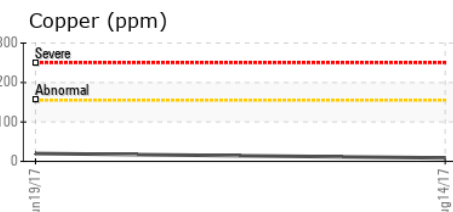
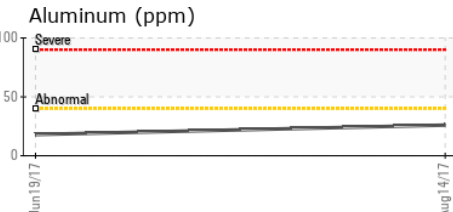
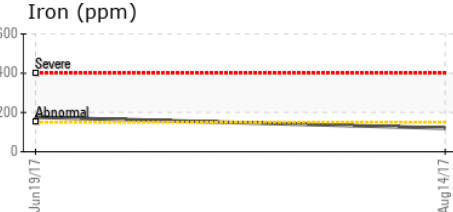


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*		10.2	11.9	---
Acid Number (AN)	mg KOH/g	ASTM D974*		1.65	2.16	---
Base Number (BN)	mg KOH/g	ASTM D2896*		7.55	8.31	---

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	LTMOD	LIGHT	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	VLITE	---
Silt	scalar	Visual*	NONE	VLITE	VLITE	---
Debris	scalar	Visual*	NONE	NONE	NONE	---
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	▲ .2%	---
Free Water	scalar	Visual*		NEG	▲ .2%	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	11.0	10.9	10.0	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC100139 **Received** : 17 Aug 2017
Lab Number : **02164215** **Diagnosed** : 23 Aug 2017
Unique Number : 4551277 **Diagnostician** : Kevin Marson
Test Package : MOB 2 (Additional Tests: Bottom, BottomAnalysis, FilterPatch, PQ, TAN Auto)

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To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.