



# WEAR CHECK

## MOBILE OIL ANALYSIS REPORT

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

### 69 - Front Gasoline Engine

Unit Make : CHEVY

Unit Model : MONTE CARLO

Serial No : BTK-350

Date Rec'd : May 13, 2014

Comp Make : CHEVY

Cust. Ref No. : {n/a}

Sample Date : Apr 27, 2014

Comp Model : 350

Stub No. : WC-M1165534

Diagnostician : Jonathan Hester

#### RECOMMENDATION

Resample at the next service interval to monitor.

Sample Date	11/27/11	11/25/12	07/21/13	Current	UOM
Time on Unit	31	33.5	37	40	hrs
Time on Oil	2	2.5	3.5	3	hrs
Time on Fltr	2	2.5	3.5	3	hrs
Oil Maint.	changed	changed	changed	changed	---
Filter Maint.	changed	changed	changed	changed	---

#### CONTAMINATION

There is no indication of any contamination in the component.

Sample Date	11/27/11	11/25/12	07/21/13	Current	Abn
Silicon	8.4	8.1	8.1	5.3	30
Potassium	0.0	0.0	2.0	1.6	20
Sodium	342	351	412	389	80
Fuel (%)	<2.0	<2.0	<2.0	<2.0	4.0
Glycol	---	---	---	---	0.06
Water (%)	<0.1	<0.1	<0.1	<0.1	0.1
Soot (%)	0	0	0	0	---
Sulfation (%)	9	9	7	8	100
Nitration (%)	5	5	3	3	100

#### WEAR

All component wear rates are normal.

Sample Date	11/27/11	11/25/12	07/21/13	Current	Abn
Iron	17	21	22	17	150
Nickel	0.3	0.8	0.5	0.6	5
Chromium	0.9	1.0	1.1	1.0	20
Titanium	17	17	21	22	---
Copper	4.5	5.7	7.1	7.8	155
Aluminum	14	14	13	10	40
Tin	0.0	0.0	0.0	0.0	10
Lead	873	903	995	1190	50
Silver	0.0	0.0	0.0	0.0	2

#### OIL CONDITION

Oil Type: 14 QTS of VALVOLINE ALLCLIMT 20W50

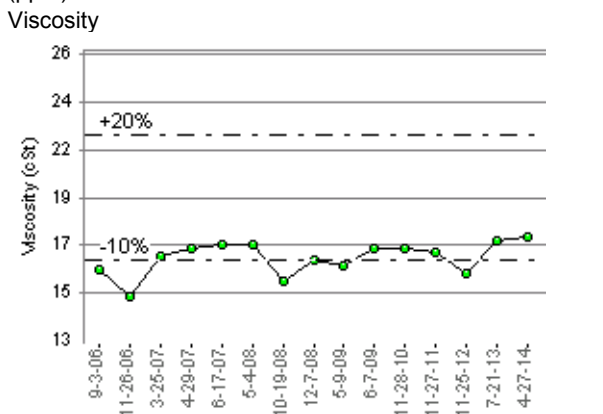
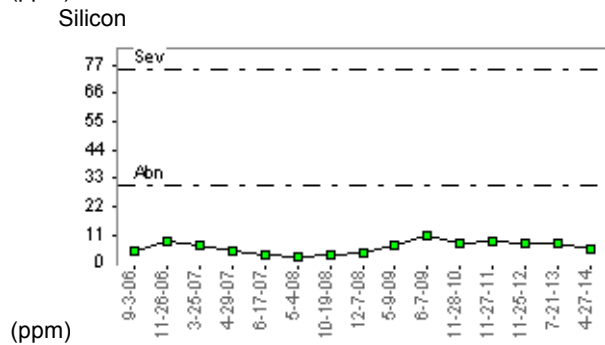
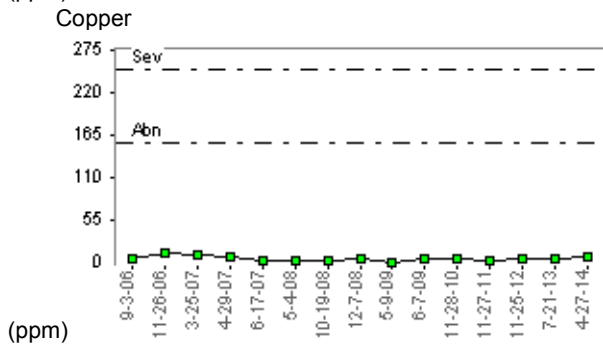
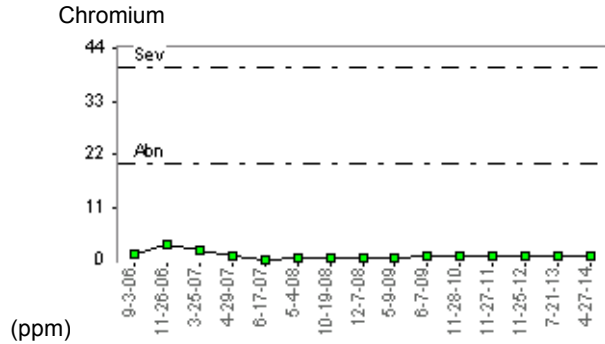
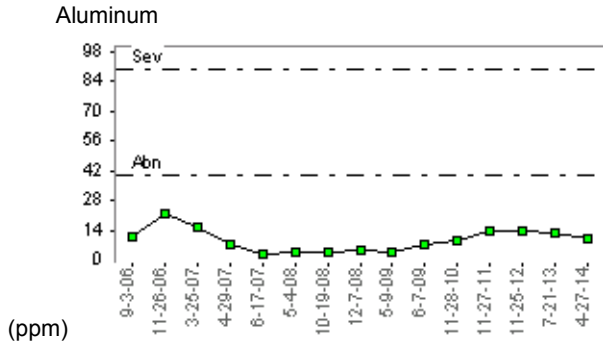
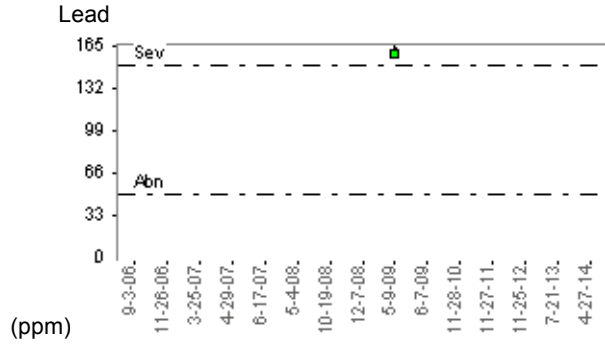
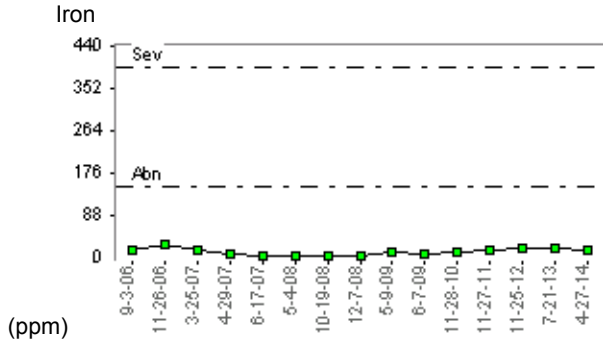
The condition of the oil is acceptable for the time in service.

Sample Date	11/27/11	11/25/12	07/21/13	Current	Base
Boron	0.4	0.6	0.8	0.9	
Barium	0.0	0.0	0.0	0.0	
Calcium	1532	1365	1646	1584	
Magnesium	3.9	9.5	3.6	6.5	
Molybdenum	4.3	4.5	3.1	3.4	
Sodium	342	351	412	389	
Phosphorus	810	640	770	722	
Sulfur	2231	1951	1710	779	
Zinc	763	645	764	780	
Visc 40°C (cSt)	---	---	---	---	165.9
Visc 100°C (cSt)	16.94	16.04	17.5	17.62	18.5
VI	---	---	---	---	125
Oxidation (%)	7	9	6	6	

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NOTE: all elemental values reported in parts per million (ppm).

Graphs



Report Legend

- Abn Represents the general abnormal limit for the test result.
- Base Represents the test result values from a sample of the new unused oil.
- Current Represents data for the current sample submitted.
- > Greater than
- < Less than
- Data value unavailable.

If you have any questions concerning this sample report (work order no 03502857 ) please call 1-800-237-1369.



ATTN: JOHN ORZECOWSKI  
 JOHN ORZECOWSKI  
 11313 DAYSVILLE RD  
 FREDERICK, MD 21701  
 (301)987-1878  
 FAX (301)987-1701

