



# CONSTRUCTION EQUIPMENT

## 518 VOLVO L120E 64854 - DIESEL ENGINE



**Sample No:** VC394929  
**Oil Type:** PETRO CANADA DURON SAE 15W40  
**Job No:** 518



### SAMPLE INFORMATION

Sample Number	<b>VC394929</b>	VC341053	VC341051	VC427052
Sample Date	<b>13 Mar 2009</b>	02 Feb 2009	05 Jan 2009	30 Oct 2008
Machine Hours	<b>6652</b>	6186	5862	5523
Oil Hours	<b>466</b>	324	337	372
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**VILLE DE THETFORD**  
 144 RUE NOTRE DAME SUD  
 THETFORD, QC  
 CA G8G 5T3  
 Contact: Andre Arevin

### OIL CONDITION

Visc @ 100°C	cSt	<b>14.3</b>	14.0	14.4	13.9
Oxidation (PA)	%	<b>66</b>	61	64	64

T: (418)335-2981  
 F: (418)338-9139

### CONTAMINATION

Soot %	%	<b>0</b>	0	0	0.1
Nitration (PA)	%	<b>74</b>	68	75	77
Sulfation (PA)	%	<b>61</b>	57	58	56
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>6</b>	7	8	7
Sodium	ppm	<b>1</b>	<1	0	<1
Potassium	ppm	<b>0</b>	<1	2	2

**Diagnosis**  
 Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the component. The condition of the oil is acceptable for the time in service.

### WEAR METALS

Iron	ppm	<b>6</b>	6	7	8
Copper	ppm	<b>&lt;1</b>	<1	<1	1
Lead	ppm	<b>2</b>	2	3	3
Tin	ppm	<b>1</b>	<1	2	2
Aluminum	ppm	<b>3</b>	3	3	4
Chromium	ppm	<b>1</b>	1	2	2
Molybdenum	ppm	<b>29</b>	30	43	42
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>&lt;1</b>	<1	<1	<1
Silver	ppm	<b>&lt;1</b>	0	<1	<1
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	<1	<1	<1

### ADDITIVES

Calcium	ppm	<b>1746</b>	1884	1011	1001
Magnesium	ppm	<b>688</b>	688	1082	1033
Zinc	ppm	<b>1342</b>	1422	1317	1290
Phosphorus	ppm	<b>1108</b>	1170	1088	1042
Barium	ppm	<b>&lt;1</b>	0	0	0
Boron	ppm	<b>9</b>	11	9	8

**Depot:** VILTHE  
**Unique No:** 2872875  
**Signed:**  
**Report Date:** 26 Mar 2009



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## GRAPHS

