



# VOLVO

## OIL ANALYSIS REPORT

WEAR  
CONTAMINATION  
FLUID CONDITION

NORMAL
SEVERE
ATTENTION



Machine Id  
**VOLVO L45B 1952243**  
Component  
**Rear Axle**  
Fluid  
**{not provided} (--- GAL)**

### RECOMMENDATION

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

### WEAR

All component wear rates are normal.

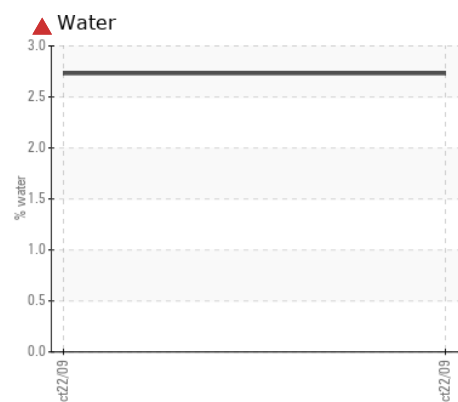
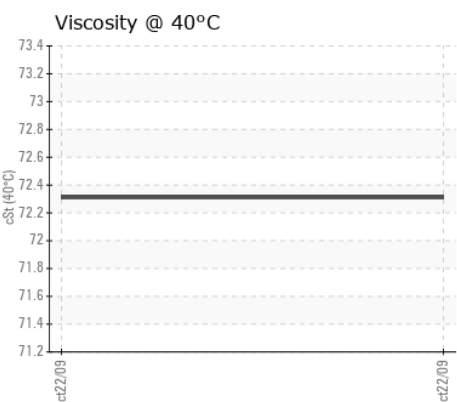
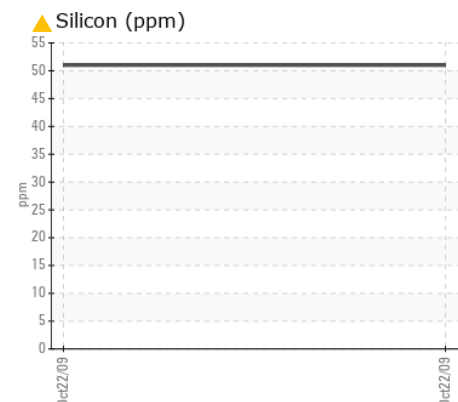
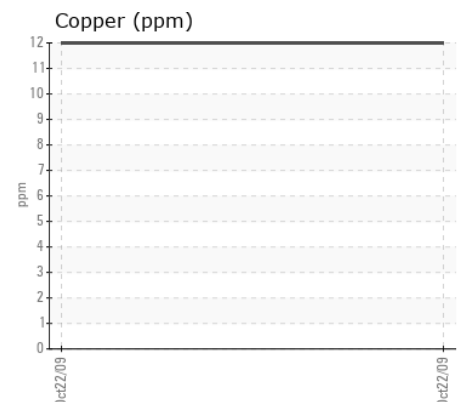
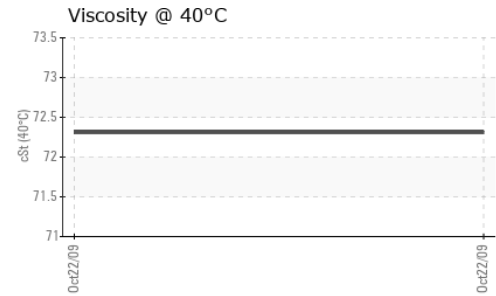
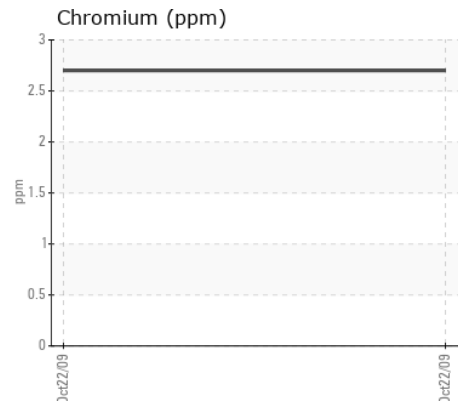
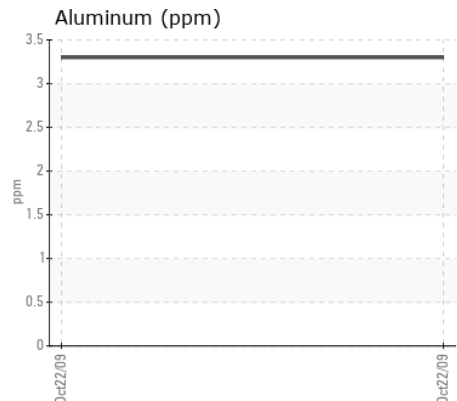
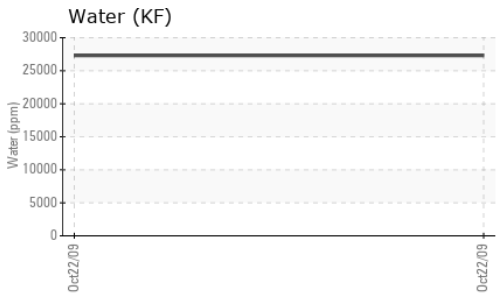
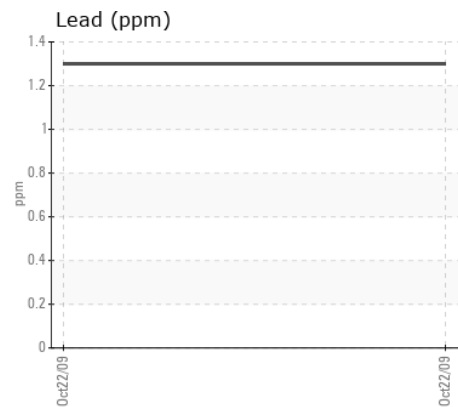
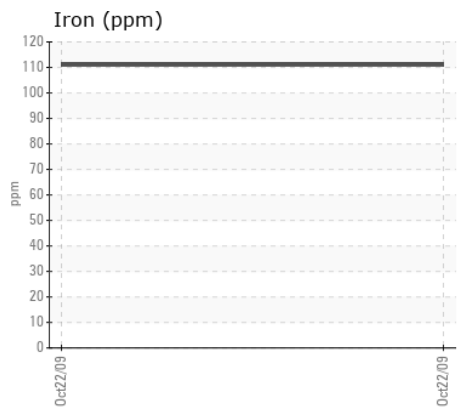
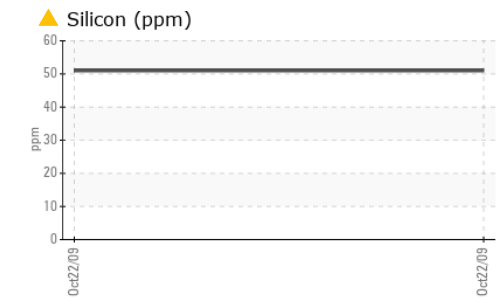
### CONTAMINATION

There is a high concentration of water present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material.

### FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP086943	---	---
Sample Date		Client Info		22 Oct 2009	---	---
Machine Age	hrs	Client Info		343	---	---
Oil Age	hrs	Client Info		343	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Not Chngd	---	---
Sample Status				SEVERE	---	---
Iron	ppm	ASTM D5185m		111	---	---
Chromium	ppm	ASTM D5185m		3	---	---
Nickel	ppm	ASTM D5185m		1	---	---
Titanium	ppm	ASTM D5185m		4	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m		3	---	---
Lead	ppm	ASTM D5185m		1	---	---
Copper	ppm	ASTM D5185m		12	---	---
Tin	ppm	ASTM D5185m		1	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Silicon	ppm	ASTM D5185m		▲ 51	---	---
Potassium	ppm	ASTM D5185m		3	---	---
Water	%	ASTM D6304		▲ 2.73	---	---
ppm Water	ppm	ASTM D6304		▲ 27300	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	● MILKY	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual		▲ 2.0%	---	---
Sodium	ppm	ASTM D5185m		7	---	---
Boron	ppm	ASTM D5185m		84	---	---
Barium	ppm	ASTM D5185m		4	---	---
Molybdenum	ppm	ASTM D5185m		0	---	---
Manganese	ppm	ASTM D5185m		14	---	---
Magnesium	ppm	ASTM D5185m		8	---	---
Calcium	ppm	ASTM D5185m		3042	---	---
Phosphorus	ppm	ASTM D5185m		1218	---	---
Zinc	ppm	ASTM D5185m		1370	---	---
Sulfur	ppm	ASTM D5185m		8941	---	---
Visc @ 40°C	cSt	ASTM D445		72.31	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP086943 **Received** : 27 Oct 2009  
**Lab Number** : 02508190 **Tested** : 28 Oct 2009  
**Unique Number** : 4997969 **Diagnosed** : 28 Oct 2009 - Jonathan Hester  
**Test Package** : MOB 1 ( Additional Tests: KF )

**ALTA EQUIPMENT COMPANY - METRO WEST**  
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 T: (248)356-5200  
 F: (248)356-2029

To discuss this sample report, contact Customer Service at 1-800-237-1369.  
 \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.  
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)