



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
VOLVO 118518
Component
Front Diesel Engine
Fluid
CHEVRON DELO 400 MULTIGRADE 15W40 (40 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KLMFA08633	KLMFA03562	KLMFA04308
Sample Date		Client Info		28 Jan 2013	10 Dec 2012	03 Nov 2012
Machine Age	mls	Client Info		419110	387442	352073
Oil Age	mls	Client Info		31668	155337	119968
Filter Age	mls	Client Info		31668	155337	119968
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	MARGINAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m		60	358	294
Chromium	ppm	ASTM D5185m		1	6	5
Nickel	ppm	ASTM D5185m		1	6	5
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m		9	20	18
Lead	ppm	ASTM D5185m		12	11	12
Copper	ppm	ASTM D5185m		11	36	34
Tin	ppm	ASTM D5185m		3	3	2
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

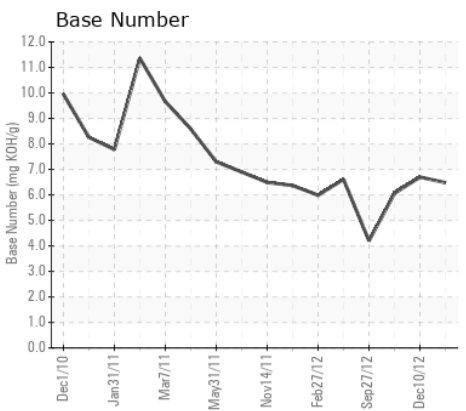
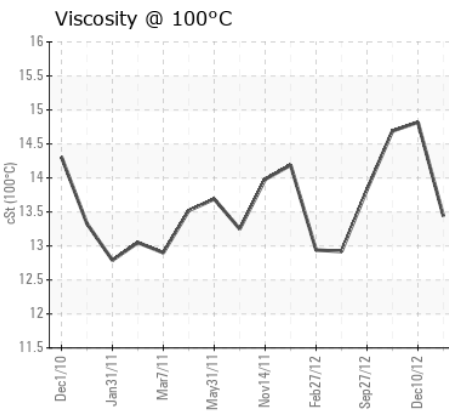
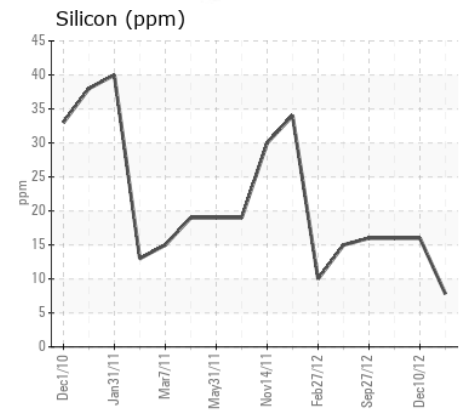
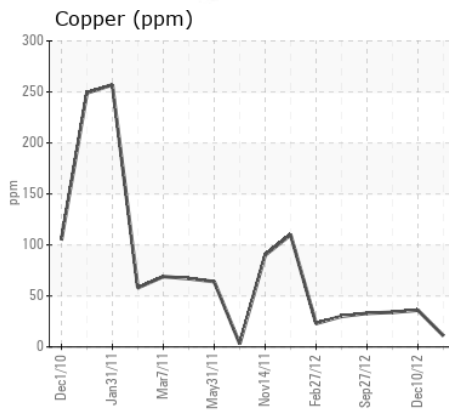
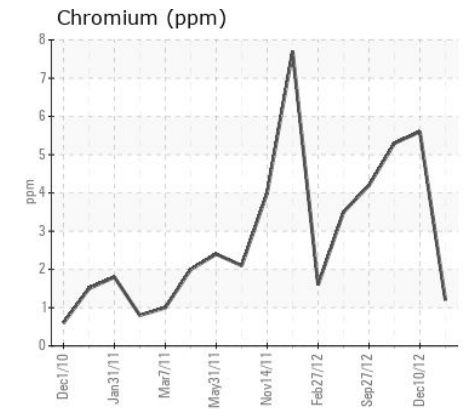
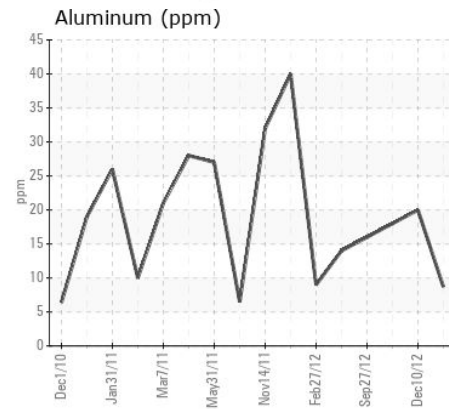
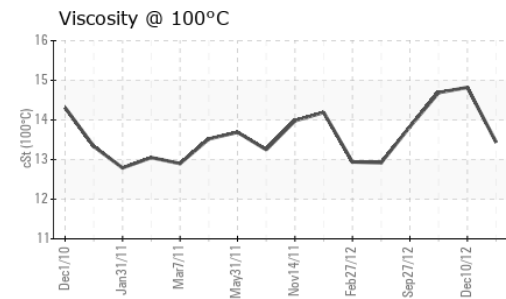
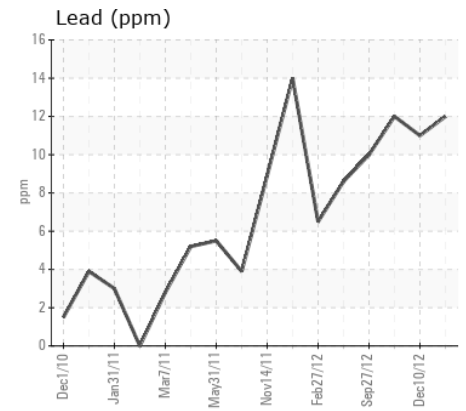
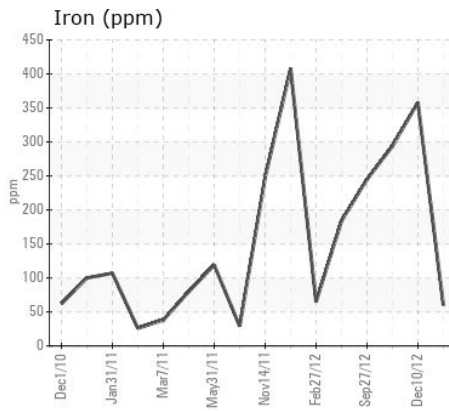
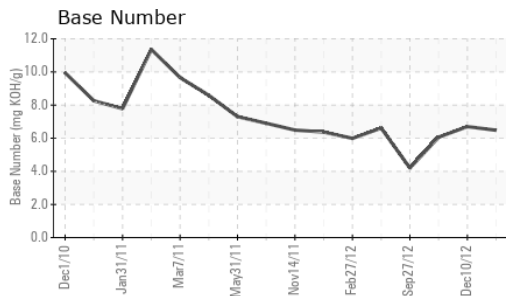
There is no indication of any contamination in the component.

Silicon	ppm	ASTM D5185m		8	16	16
Potassium	ppm	ASTM D5185m		6	15	13
Fuel		WC Method		<1.0	<1.0	<1.0
Water		WC Method		NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844		0.8	1.9	1.9
Nitration	Abs/cm	*ASTM D7624		10.	13.	13.
Sulfation	Abs/.1mm	*ASTM D7415		25.	32.	34.
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual		NEG	NEG	NEG

FLUID CONDITION

The condition of oil is suitable for further service.

Sodium	ppm	ASTM D5185m		5	12	12
Boron	ppm	ASTM D5185m		126	35	26
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		67	59	60
Manganese	ppm	ASTM D5185m		1	5	3
Magnesium	ppm	ASTM D5185m		286	224	260
Calcium	ppm	ASTM D5185m		1611	1902	1938
Phosphorus	ppm	ASTM D5185m		1020	994	1003
Zinc	ppm	ASTM D5185m		1080	1105	1248
Sulfur	ppm	ASTM D5185m		2827	2393	2684
Oxidation	Abs/.1mm	*ASTM D7414		21.	29.	31.
Base Number (BN)	mg KOH/g	ASTM D2896		6.48	6.70	6.06
Visc @ 100°C	cSt	ASTM D445		13.44	14.82	14.69
Fluid Type		*In-house		SAE_ENG_DE	UNKNOWN	SAE_ENG_DE



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KLMFA08633 **Received** : 01 Feb 2013
Lab Number : 03221074 **Diagnosed** : 05 Feb 2013
Unique Number : 6158657 **Diagnostician** : Don Baldrige
Test Package : MOB 2 (Additional Tests: FluidDetermination)

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)

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