



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
VOLVO 128904
Component
Front Diesel Engine
Fluid
SAE 15W40 (11 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

There is no indication of any contamination in the component.

FLUID CONDITION

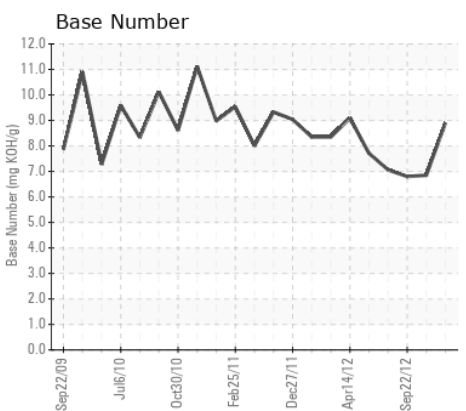
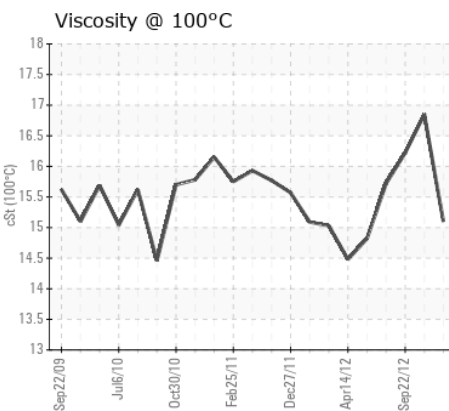
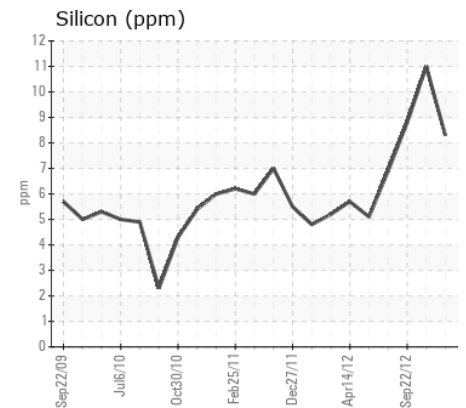
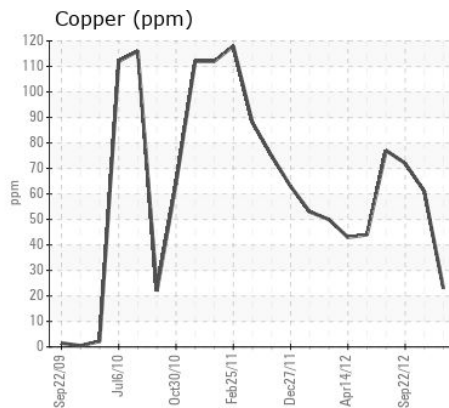
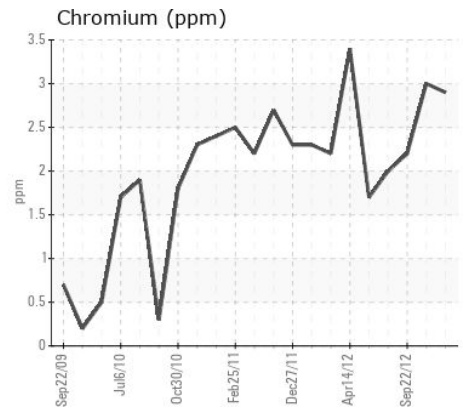
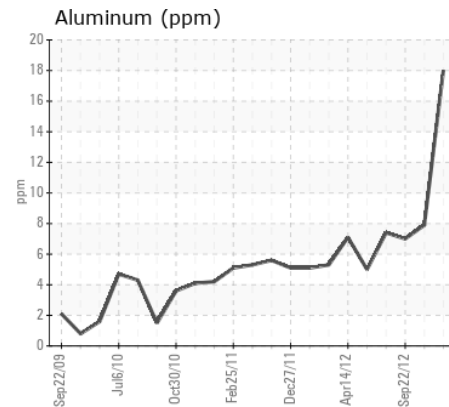
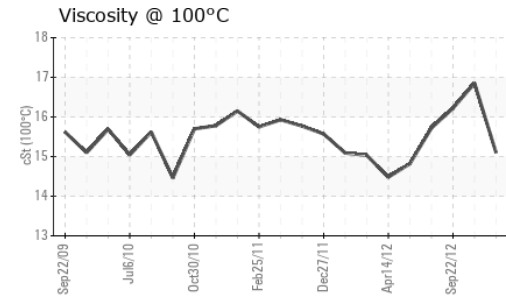
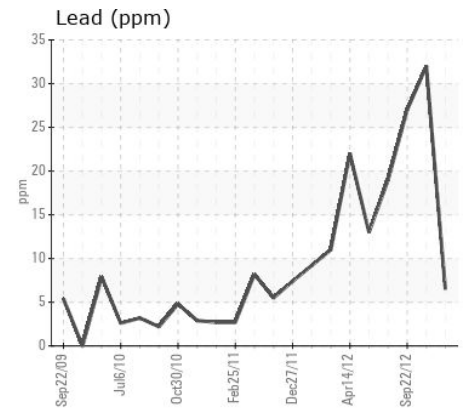
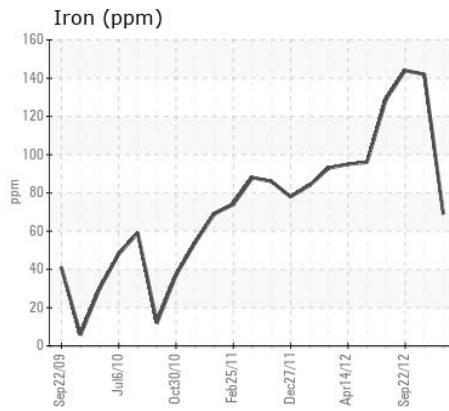
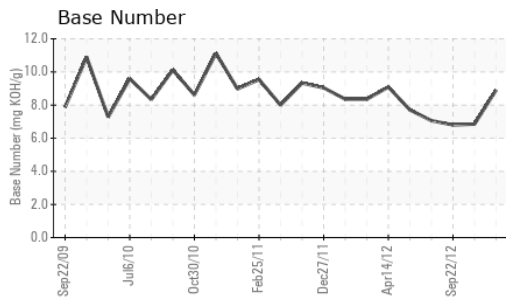
The condition of the oil is suitable for further service. The TBN result indicates that there is suitable alkalinity remaining in the oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KLMFA06557	KLMF001302	KLMFA05817
Sample Date		Client Info		17 Jul 2013	19 Nov 2012	22 Sep 2012
Machine Age	mls	Client Info		2517234	2474694	2444812
Oil Age	mls	Client Info		33673	500947	400583
Filter Age	mls	Client Info		33673	500947	400583
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	MARGINAL	ABNORMAL

Iron	ppm	ASTM D5185m		69	142	144
Chromium	ppm	ASTM D5185m		3	3	2
Nickel	ppm	ASTM D5185m		<1	2	2
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m		18	8	7
Lead	ppm	ASTM D5185m		6	32	27
Copper	ppm	ASTM D5185m		23	61	72
Tin	ppm	ASTM D5185m		2	1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

Silicon	ppm	ASTM D5185m		8	11	9
Potassium	ppm	ASTM D5185m		3	12	0
Fuel		WC Method		<1.0	<1.0	<1.0
Water		WC Method		NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844		1	2.6	▲ 3.1
Nitration	Abs/cm	*ASTM D7624		6.	10.	12.
Sulfation	Abs/.1mm	*ASTM D7415		18.	26.	30.
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

Sodium	ppm	ASTM D5185m		5	9	7
Boron	ppm	ASTM D5185m		77	58	37
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		84	78	69
Manganese	ppm	ASTM D5185m		<1	2	2
Magnesium	ppm	ASTM D5185m		347	324	288
Calcium	ppm	ASTM D5185m		1553	2304	2324
Phosphorus	ppm	ASTM D5185m		1008	1144	1196
Zinc	ppm	ASTM D5185m		1270	1444	1436
Sulfur	ppm	ASTM D5185m		2758	3103	2897
Oxidation	Abs/.1mm	*ASTM D7414		11.	21.	23.
Base Number (BN)	mg KOH/g	ASTM D2896		8.9	6.85	6.8
Visc @ 100°C	cSt	ASTM D445		15.1	▲ 16.85	16.22
Fluid Type		*In-house		*SAE_ENG_DE	SAE_ENG_DE	SAE_ENG_DE



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KLMFA06557 **Received** : 22 Jul 2013
Lab Number : 03324736 **Diagnosed** : 23 Jul 2013
Unique Number : 6327436 **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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