



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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KLMFA15306	KLMFA13584	KL03712469
Sample Date		Client Info		03 Aug 2015	02 May 2015	21 Mar 2015
Machine Age	mls	Client Info		946332	885554	856356
Oil Age	mls	Client Info		32068	29198	439125
Filter Age	mls	Client Info		32068	29198	439125
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	41	43	37
Chromium	ppm	ASTM D5185m	>20	<1	<1	2
Nickel	ppm	ASTM D5185m	>2	1	2	<1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	5	3	6
Lead	ppm	ASTM D5185m	>40	6	10	28
Copper	ppm	ASTM D5185m	>330	6	14	▲ 62
Tin	ppm	ASTM D5185m	>15	1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

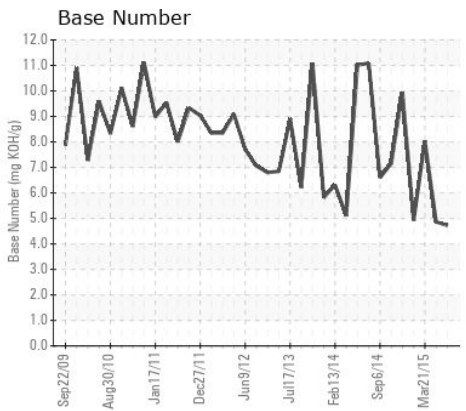
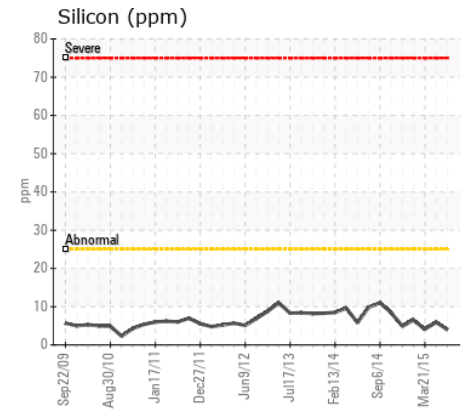
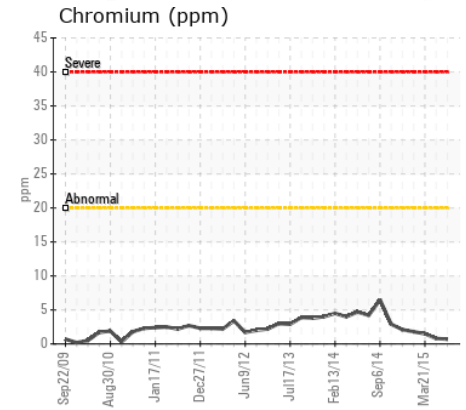
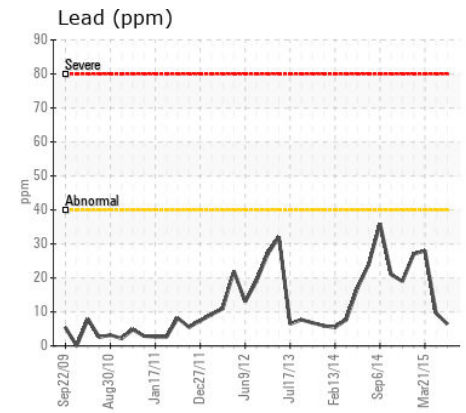
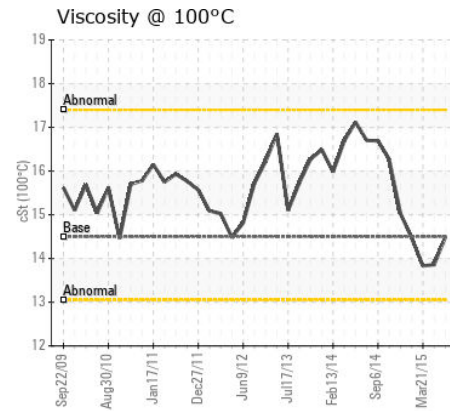
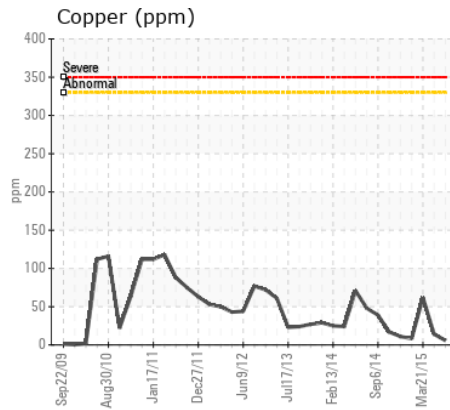
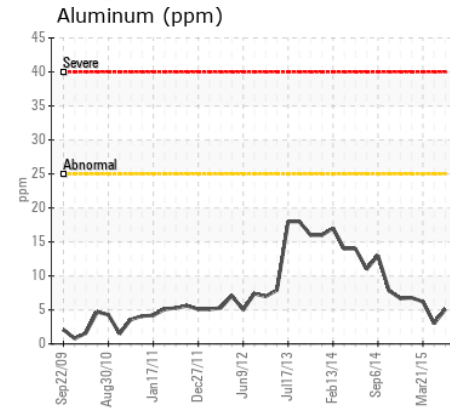
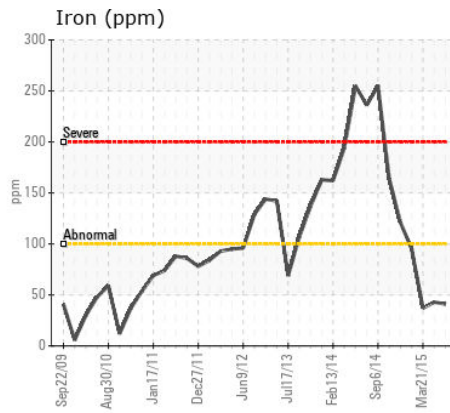
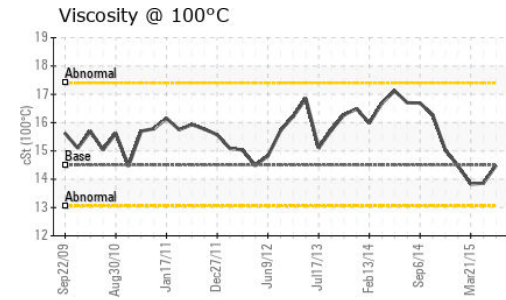
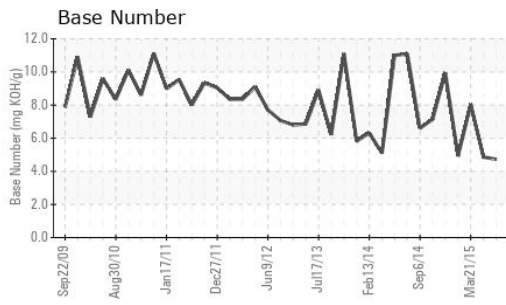
There is no indication of any contamination in the component.

Silicon	ppm	ASTM D5185m	>25	4	6	4
Potassium	ppm	ASTM D5185m	>20	2	0	0
Fuel		WC Method	>6.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	2.3	1.8	0.9
Nitration	Abs/cm	*ASTM D7624		10.	9.	7.
Sulfation	Abs/.1mm	*ASTM D7415		28.	26.	21.
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	>0.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		6	4	4
Boron	ppm	ASTM D5185m		85	109	218
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		88	83	79
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		374	376	332
Calcium	ppm	ASTM D5185m		1543	1721	1678
Phosphorus	ppm	ASTM D5185m		983	1062	977
Zinc	ppm	ASTM D5185m		1096	1213	1167
Sulfur	ppm	ASTM D5185m		4596	3200	1623
Oxidation	Abs/.1mm	*ASTM D7414		20.	21.	14.
Base Number (BN)	mg KOH/g	ASTM D2896		4.73	4.86	8.04
Visc @ 100°C	cSt	ASTM D445	14.5	14.49	13.86	13.83



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KLMFA15306 **Received** : 10 Aug 2015
Lab Number : 03800092 **Diagnosed** : 12 Aug 2015
Unique Number : 7098119 **Diagnostician** : Jonathan Hester
Test Package : MOB 2

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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