MOB II WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	MARGINAL

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 for time on oil.

CONTAMINATION

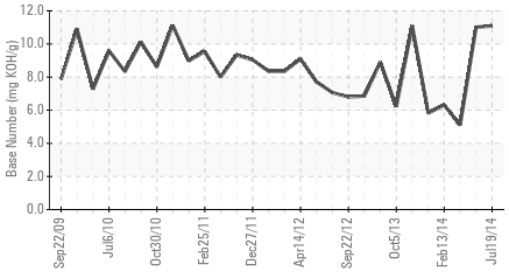
There is no indication of any contamination in the component.

FLUID CONDITION

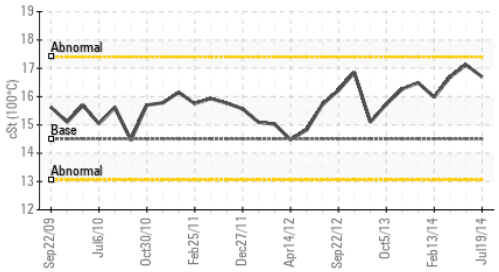
The oil viscosity is higher than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KLMFA12063	KLMFA12052	KLMFA13353
Sample Date		Client Info		19 Jul 2014	31 May 2014	19 Apr 2014
Machine Age	mls	Client Info		210177	175845	443589
Oil Age	mls	Client Info		276420	242088	198605
Filter Age	mls	Client Info		276420	242088	198605
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				MARGINAL	MARGINAL	MARGINAL
Iron	ppm	ASTM D5185m	>100	236	255	194
Chromium	ppm	ASTM D5185m	>20	4	5	4
Nickel	ppm	ASTM D5185m	>2	3	4	3
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	11	14	14
Lead	ppm	ASTM D5185m	>40	24	17	8
Copper	ppm	ASTM D5185m	>330	48	71	24
Tin	ppm	ASTM D5185m	>15	9	12	2
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	10	6	10
Potassium	ppm	ASTM D5185m	>20	3	3	<1
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	1.6	1.4	2.9
Nitration	Abs/cm	*ASTM D7624		6.	5.	9.
Sulfation	Abs/.1mm	*ASTM D7415		18.	16.	22.
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
Sodium	ppm	ASTM D5185m		5	7	8
Boron	ppm	ASTM D5185m		78	50	72
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		95	93	91
Manganese	ppm	ASTM D5185m		2	4	2
Magnesium	ppm	ASTM D5185m		394	349	394
Calcium	ppm	ASTM D5185m		2091	1880	1854
Phosphorus	ppm	ASTM D5185m		1186	1126	1071
Zinc	ppm	ASTM D5185m		1260	1208	1278
Sulfur	ppm	ASTM D5185m		4173	785	2987
Oxidation	Abs/.1mm	*ASTM D7414		11.	9.	18.
Base Number (BN)	mg KOH/g	ASTM D2896		11.09	11.01	5.11
Visc @ 100°C	cSt	ASTM D445	14.5	▲ 16.7	▲ 17.12	▲ 16.69

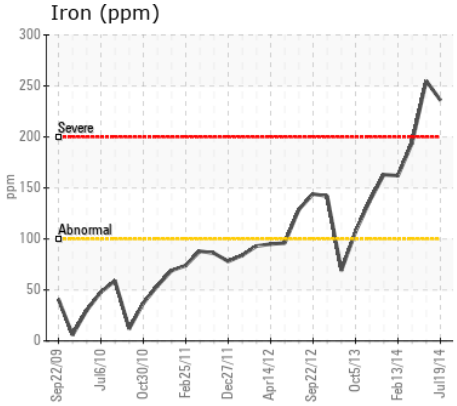
Base Number



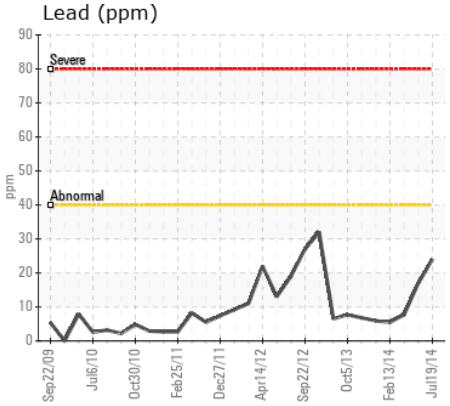
Viscosity @ 100°C



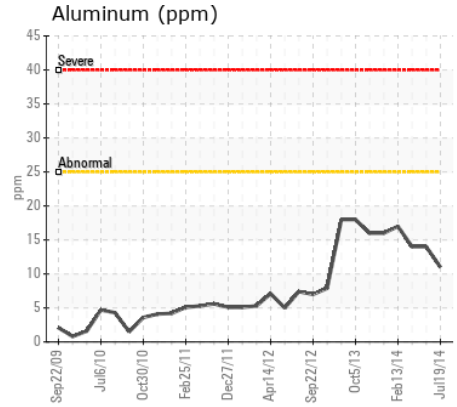
Iron (ppm)



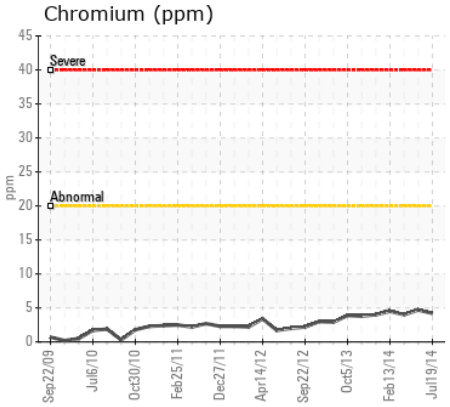
Lead (ppm)



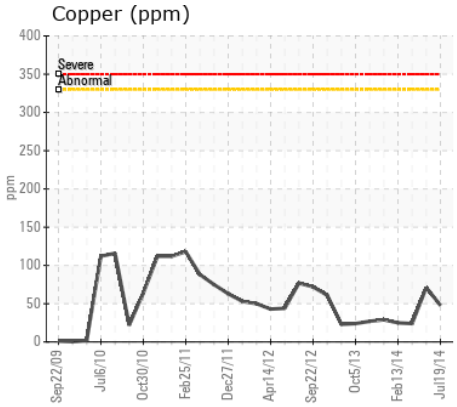
Aluminum (ppm)



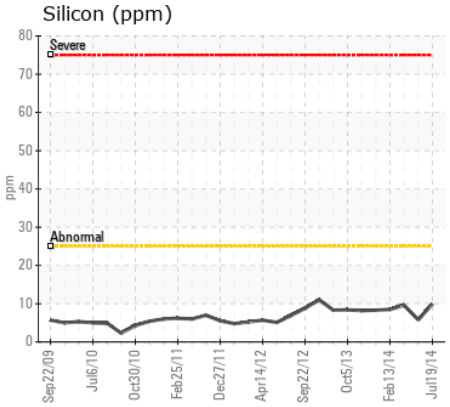
Chromium (ppm)



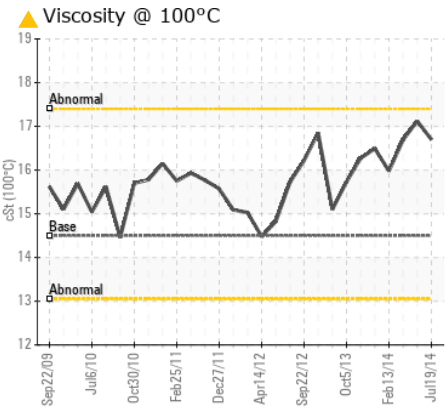
Copper (ppm)



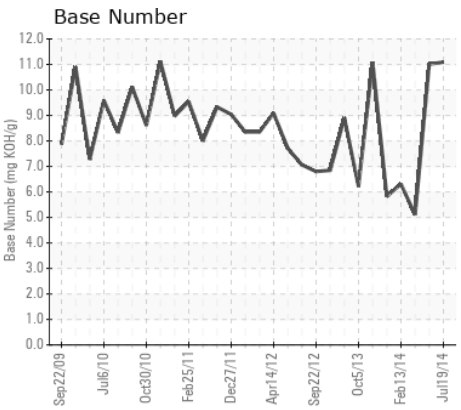
Silicon (ppm)



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: KLMFA12063	**Recieved**	: 28 Jul 2014
Lab Number	: 03549517	**Diagnosed**	: 29 Jul 2014
Unique Number	: 6692433	**Diagnostician**	: Don Baldridge
Test Package	: MOB 2 (Additional Tests: PQ)		

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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