MOB II WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
VOLVO 110087
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

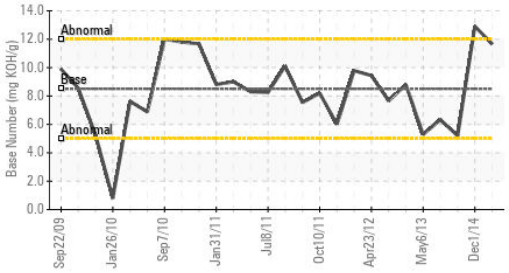
There is no indication of any contamination in the component.

FLUID CONDITION

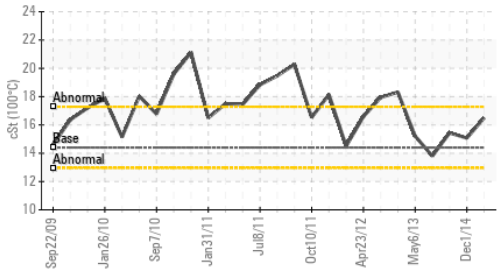
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KLMFA13331	KLMFA13344	KLMFA13354
Sample Date		Client Info		12 Jan 2015	01 Dec 2014	03 Dec 2013
Machine Age	mls	Client Info		2486034	2461375	2370834
Oil Age	mls	Client Info		115200	90541	61678
Filter Age	mls	Client Info		19541	12353	61678
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Filter Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>100	76	50	85
Chromium	ppm	ASTM D5185m	>20	<1	<1	2
Nickel	ppm	ASTM D5185m	>2	1	<1	2
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	4	5	7
Lead	ppm	ASTM D5185m	>40	16	5	7
Copper	ppm	ASTM D5185m	>330	33	21	27
Tin	ppm	ASTM D5185m	>15	3	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
Silicon	ppm	ASTM D5185m	>25	5	9	6
Potassium	ppm	ASTM D5185m	>20	4	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	0.1	0.1	2.2
Nitration	Abs/cm	*ASTM D7624		3.	4.	11.
Sulfation	Abs/.1mm	*ASTM D7415		12.	14.	29.
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		32	40	45
Boron	ppm	ASTM D5185m	250	107	103	52
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	108	96	93
Manganese	ppm	ASTM D5185m		2	<1	<1
Magnesium	ppm	ASTM D5185m	450	480	450	355
Calcium	ppm	ASTM D5185m	3000	2092	1920	1775
Phosphorus	ppm	ASTM D5185m	1150	1206	1167	1077
Zinc	ppm	ASTM D5185m	1350	1390	1422	1322
Sulfur	ppm	ASTM D5185m	4250	2482	3735	1836
Oxidation	Abs/.1mm	*ASTM D7414		6.	7.	25.
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	11.66	12.91	5.20
Visc @ 100°C	cSt	ASTM D445	14.4	16.5	15.07	15.44

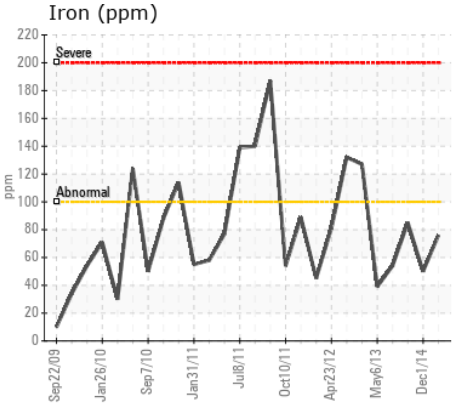
Base Number



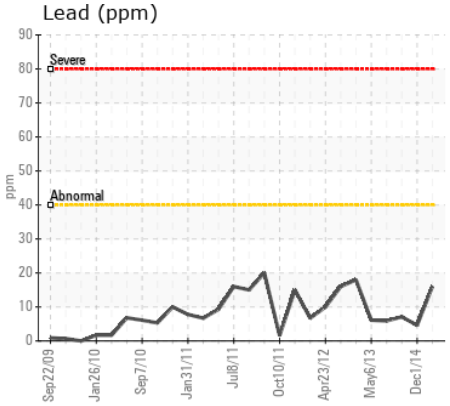
Viscosity @ 100°C



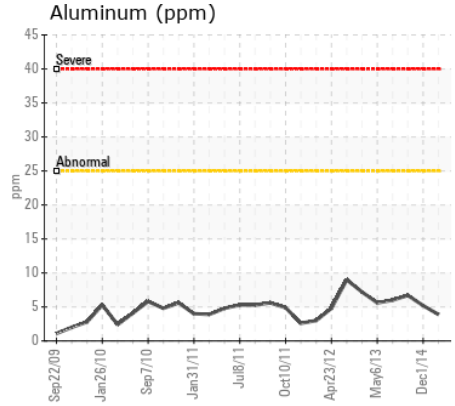
Iron (ppm)



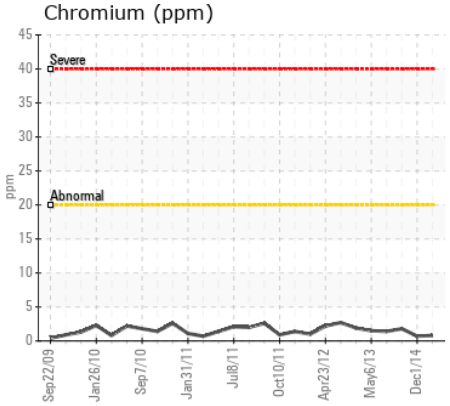
Lead (ppm)



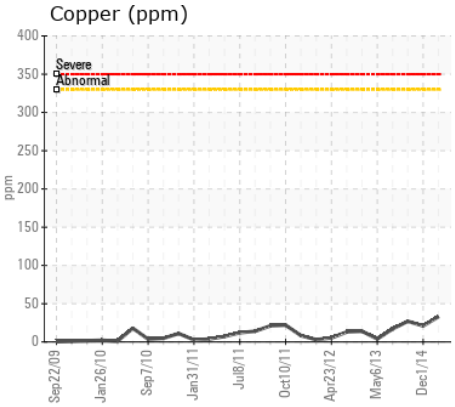
Aluminum (ppm)



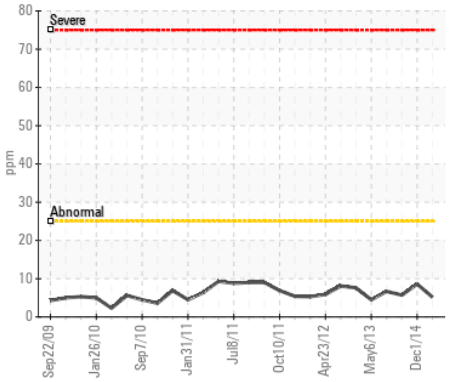
Chromium (ppm)



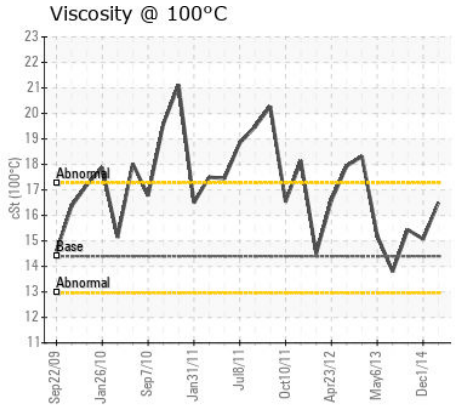
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



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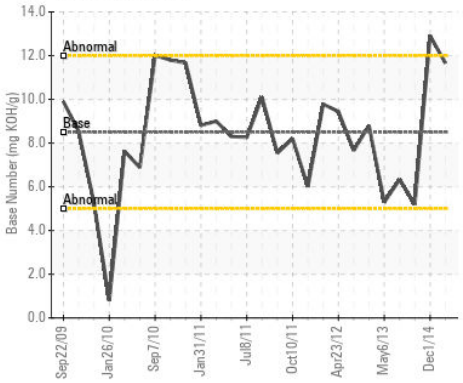

Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: KLMFA13331	**Recieved**	: 19 Jan 2015
Lab Number	: 03666104	**Diagnosed**	: 20 Jan 2015
Unique Number	: 6884091	**Diagnostician**	: Don Baldridge
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)

EDAN FARMS INC.
13549 WOODWORTH RD.
NEW SPRINGFIELD, OH
US 44443
Contact: ERIC SCHAEFER
leslie.edan@zoominternet.net
T: (330)549-5567
F: (330)549-0255