MOB II WEAR CHECK

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

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

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

WEAR

Valve wear is indicated. All other component wear rates are normal.

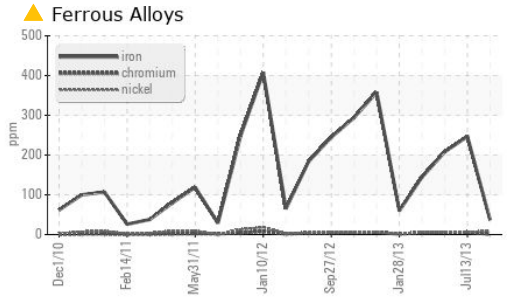
CONTAMINATION

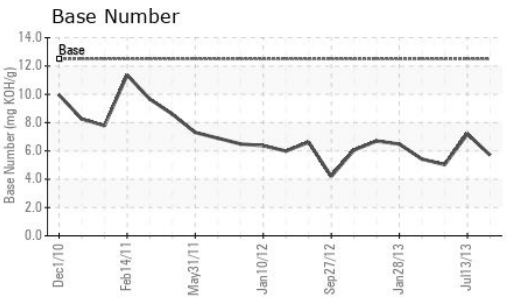
There is no indication of any contamination in the component.

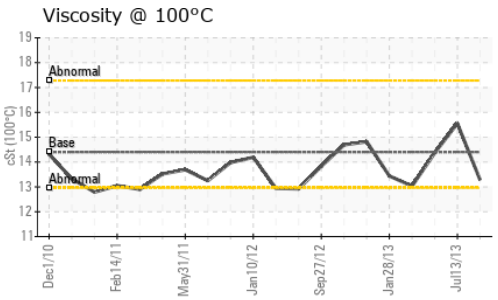
FLUID CONDITION

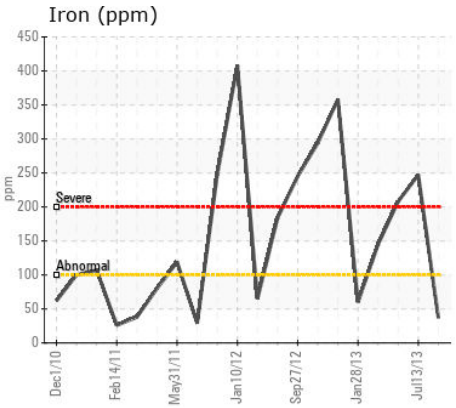
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

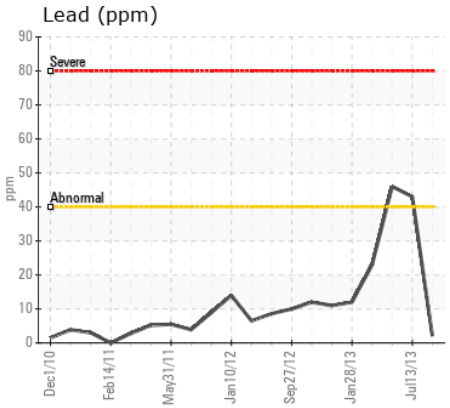
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KLMFA23922	KLMFA07587	KLMFA07580
Sample Date		Client Info		09 Jan 2017	13 Jul 2013	01 Jun 2013
Machine Age	mls	Client Info		585169	509165	479049
Oil Age	mls	Client Info		34056	121723	91607
Filter Age	mls	Client Info		34056	121723	91607
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	NORMAL	ATTENTION
Iron	ppm	ASTM D5185m	>100	37	247	208
Chromium	ppm	ASTM D5185m	>20	1	6	6
Nickel	ppm	ASTM D5185m	>2	▲ 10	5	6
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	7	22	23
Lead	ppm	ASTM D5185m	>40	2	43	46
Copper	ppm	ASTM D5185m	>330	45	94	▲ 94
Tin	ppm	ASTM D5185m	>15	2	4	6
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	13	11	9
Potassium	ppm	ASTM D5185m	>20	3	7	6
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	0.5	1.1	1.4
Nitration	Abs/cm	*ASTM D7624		11.	10.	13.
Sulfation	Abs/.1mm	*ASTM D7415		27.	25.	31.
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		6	15	15
Boron	ppm	ASTM D5185m	151	91	55	42
Barium	ppm	ASTM D5185m	0.4	<1	0	0
Molybdenum	ppm	ASTM D5185m	250	83	76	71
Manganese	ppm	ASTM D5185m		1	5	6
Magnesium	ppm	ASTM D5185m	0	397	287	266
Calcium	ppm	ASTM D5185m	2046	1604	1698	1661
Phosphorus	ppm	ASTM D5185m	1043	1004	993	1014
Zinc	ppm	ASTM D5185m	943	1108	1219	1098
Sulfur	ppm	ASTM D5185m	5012	2205	3333	3906
Oxidation	Abs/.1mm	*ASTM D7414		26.	25.	31.
Base Number (BN)	mg KOH/g	ASTM D2896	12.5	5.70	7.2	5.03
Visc @ 100°C	cSt	ASTM D445	14.4	13.28	15.55	14.37

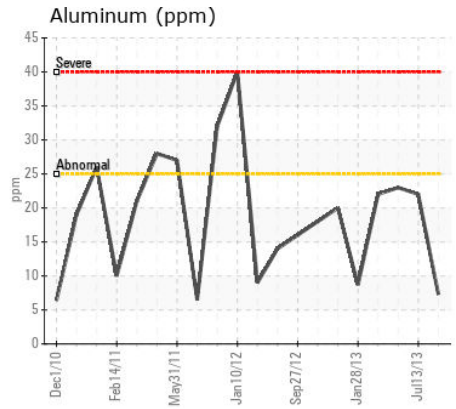


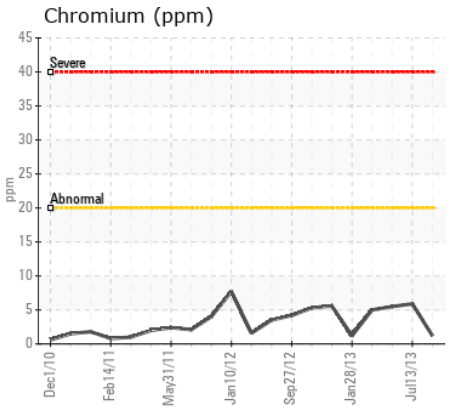


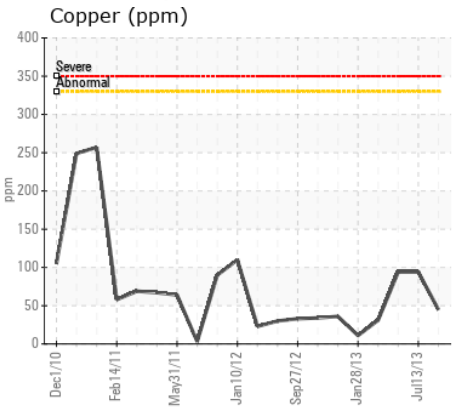


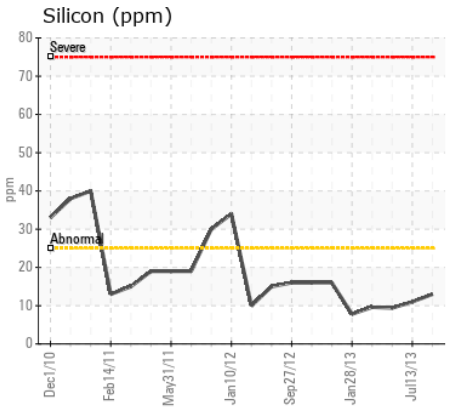


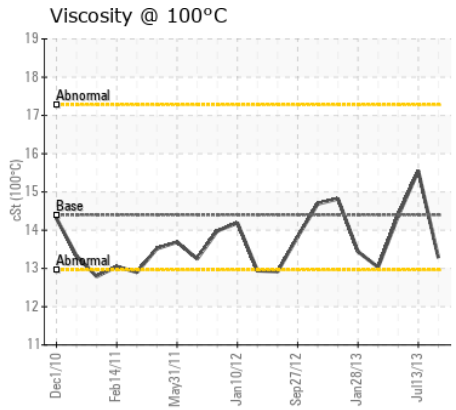


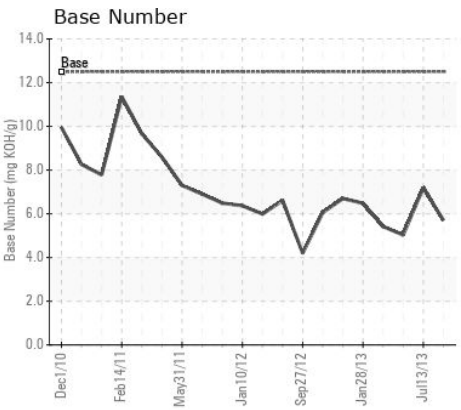












Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: KLMFA23922	**Recieved**	: 16 Jan 2017
Lab Number	: 04142993	**Diagnosed**	: 18 Jan 2017
Unique Number	: 7666379	**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)

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