MOB II

LESLIE EQUIPMENT CO.

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Store 4 - Fairmont
Machine Id
JOHN DEERE 350G 1FF350GXTDE809552
Component
Diesel Engine
Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (7 GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

Cylinder, crank, or cam shaft wear is indicated.

CONTAMINATION

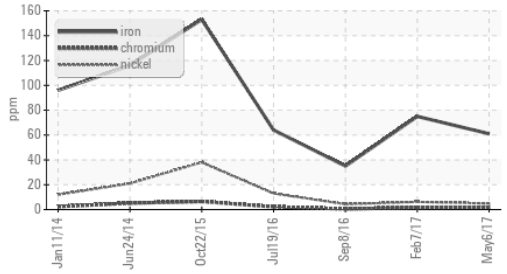
There is no indication of any contamination in the component.

FLUID CONDITION

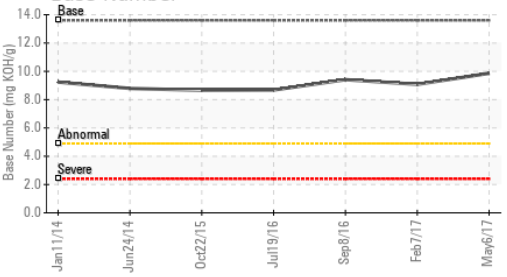
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LECP174639	LECP175279	LECP159990
Sample Date		Client Info		06 May 2017	07 Feb 2017	08 Sep 2016
Machine Age	hrs	Client Info		3450	3151	2625
Oil Age	hrs	Client Info		299	641	115
Filter Age	hrs	Client Info		299	641	115
Oil Changed		Client Info		Changed	Changed	Not Changd
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>51	▲ 61	75	35
Chromium	ppm	ASTM D5185m	>11	2	2	<1
Nickel	ppm	ASTM D5185m	>5	5	6	4
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>31	10	8	7
Lead	ppm	ASTM D5185m	>26	0	<1	2
Copper	ppm	ASTM D5185m	>26	6	13	9
Tin	ppm	ASTM D5185m	>4	0	0	0
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	>22	8	6	5
Potassium	ppm	ASTM D5185m	>20	4	5	5
Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.4	0.6	0.3
Nitration	Abs/cm	*ASTM D7624		8.	8.	8.
Sulfation	Abs/.1mm	*ASTM D7415		21.	21.	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	>0.21	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m	>31	2	5	6
Boron	ppm	ASTM D5185m		184	132	211
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		256	213	202
Manganese	ppm	ASTM D5185m		<1	1	1
Magnesium	ppm	ASTM D5185m		880	737	756
Calcium	ppm	ASTM D5185m		1408	1415	1388
Phosphorus	ppm	ASTM D5185m		916	814	920
Zinc	ppm	ASTM D5185m		1002	1019	992
Sulfur	ppm	ASTM D5185m		2780	2743	2831
Oxidation	Abs/.1mm	*ASTM D7414		14.	15.	16.
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	9.86	9.08	9.41
Visc @ 100°C	cSt	ASTM D445	15.4	14.22	13.69	14.00

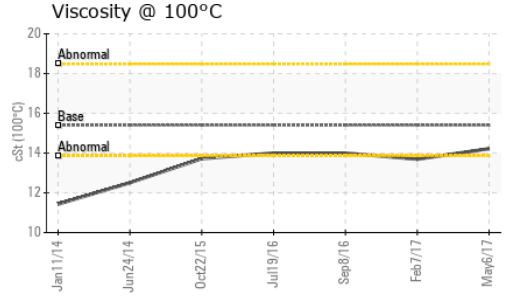
Ferrous Alloys



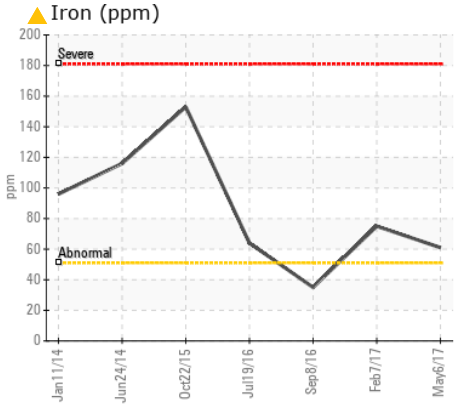
Base Number



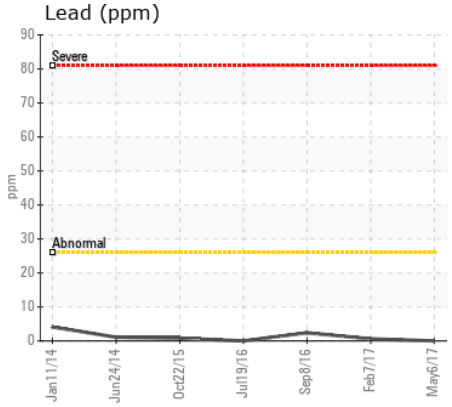
Viscosity @ 100°C



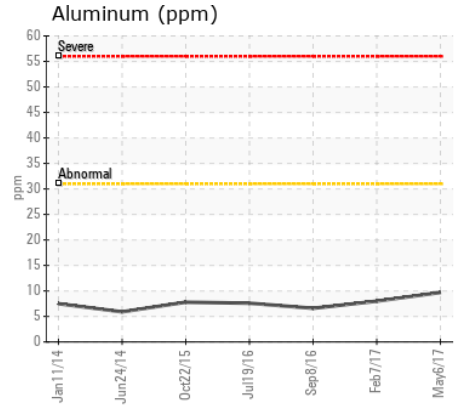
Iron (ppm)



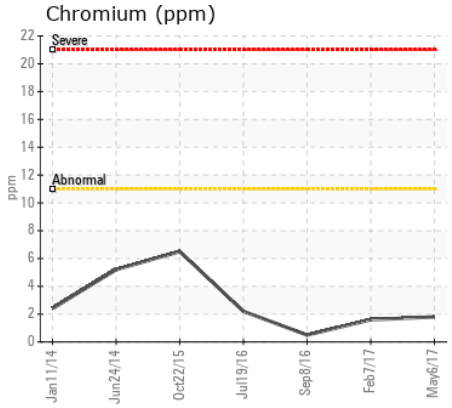
Lead (ppm)



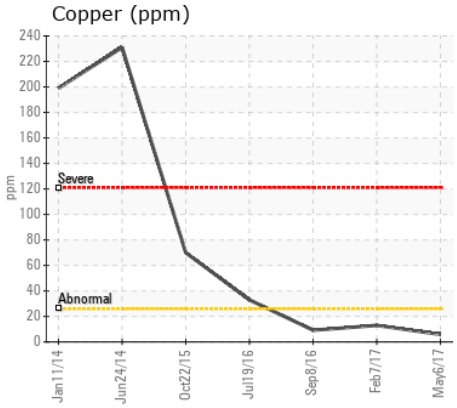
Aluminum (ppm)



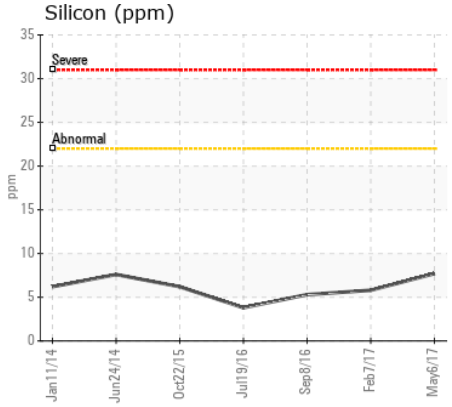
Chromium (ppm)



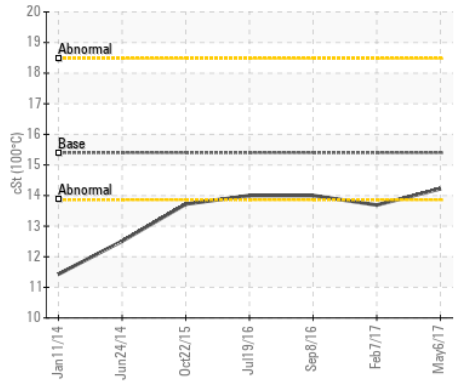
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



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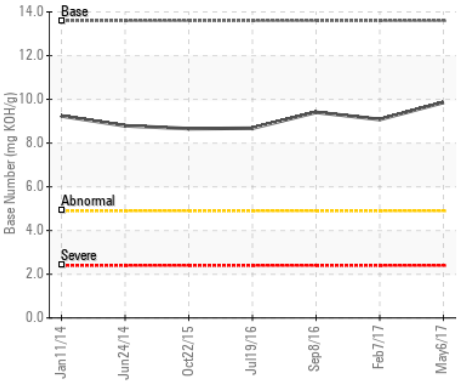

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LECP174639 **Recieved** : 11 May 2017
Lab Number : 04221077 **Diagnosed** : 16 May 2017
Unique Number : 7794505 **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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