



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
Store 3 - Norton
Machine Id
JOHN DEERE 350G 1FF350GXPDE809553
Component
Diesel Engine
Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (7 GAL)

RECOMMENDATION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LECP159516	LECP155848	LECP160238
Sample Date		Client Info		11 Jan 2017	08 Sep 2016	02 Nov 2015
Machine Age	hrs	Client Info		2487	2205	1635
Oil Age	hrs	Client Info		282	570	681
Filter Age	hrs	Client Info		0	570	681
Oil Changed		Client Info		Not Chngd	Changed	Changed
Filter Changed		Client Info		Not Chngd	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

Cylinder, crank, or cam shaft wear is indicated.

Iron	ppm	ASTM D5185m	>51	▲ 81	▲ 106	▲ 168
Chromium	ppm	ASTM D5185m	>11	2	2	5
Nickel	ppm	ASTM D5185m	>5	5	10	▲ 21
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>31	6	6	5
Lead	ppm	ASTM D5185m	>26	<1	1	2
Copper	ppm	ASTM D5185m	>26	7	20	▲ 69
Tin	ppm	ASTM D5185m	>4	<1	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

CONTAMINATION

There is no indication of any contamination in the component.

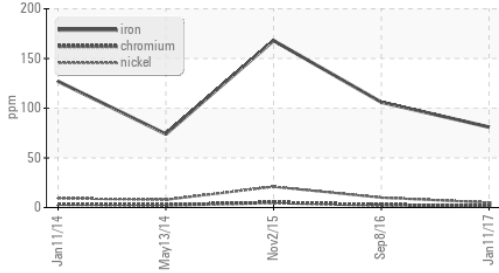
Silicon	ppm	ASTM D5185m	>22	8	6	4
Potassium	ppm	ASTM D5185m	>20	4	11	6
Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.1	0	0.6
Nitration	Abs/cm	*ASTM D7624		7.	6.	9.
Sulfation	Abs/.1mm	*ASTM D7415		18.	16.	21.
Silt	scalar	*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

FLUID CONDITION

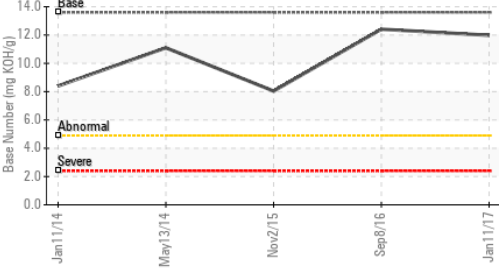
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>31	4	7	6
Boron	ppm	ASTM D5185m		156	89	9
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		232	75	82
Manganese	ppm	ASTM D5185m		2	1	2
Magnesium	ppm	ASTM D5185m		810	396	879
Calcium	ppm	ASTM D5185m		1528	1725	1348
Phosphorus	ppm	ASTM D5185m		937	1019	863
Zinc	ppm	ASTM D5185m		1050	1194	1198
Sulfur	ppm	ASTM D5185m		1862	2899	2547
Oxidation	Abs/.1mm	*ASTM D7414		13.	10.	16.
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	11.98	12.41	8.04
Visc @ 100°C	cSt	ASTM D445	15.4	14.46	14.3	14.38

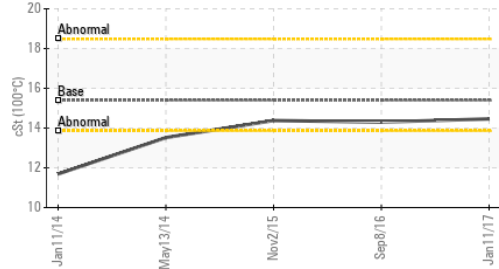
▲ Ferrous Alloys



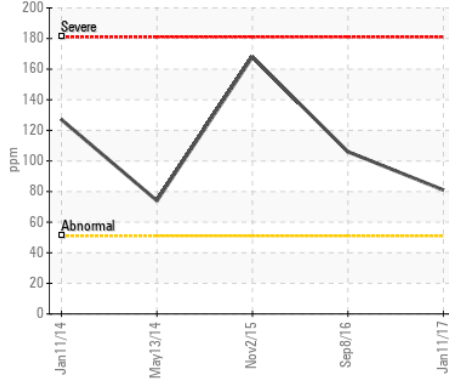
Base Number



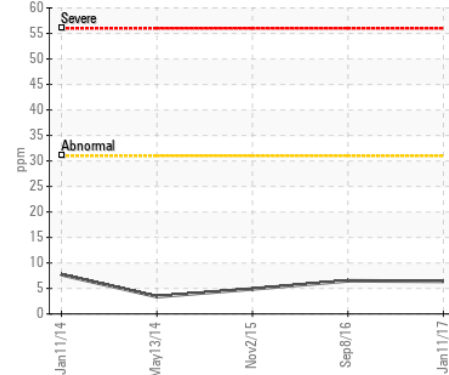
Viscosity @ 100°C



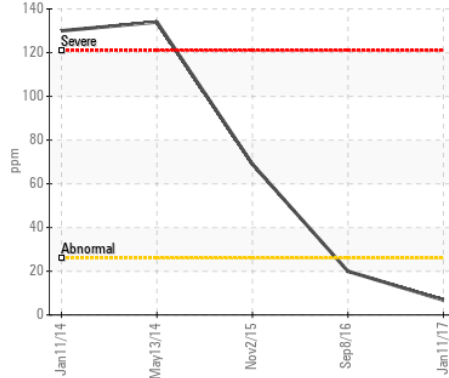
▲ Iron (ppm)



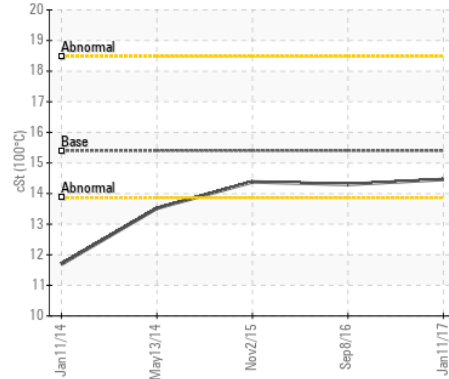
Aluminum (ppm)



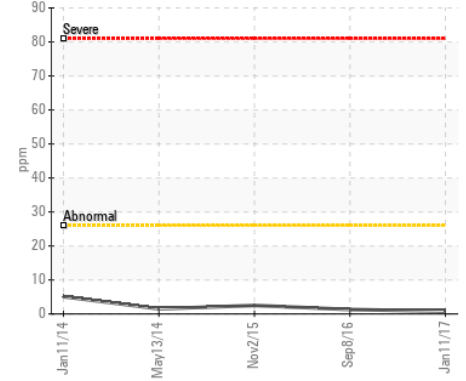
Copper (ppm)



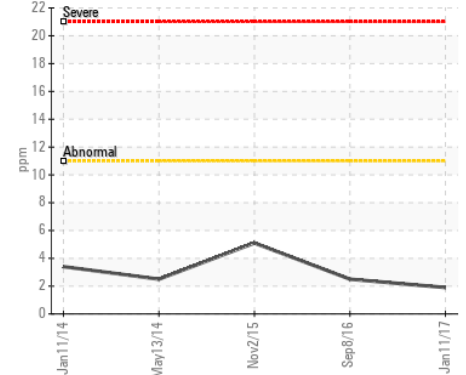
Viscosity @ 100°C



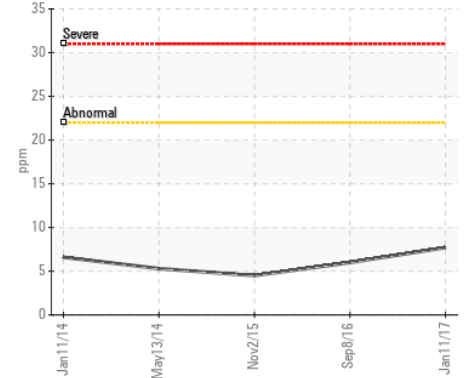
Lead (ppm)



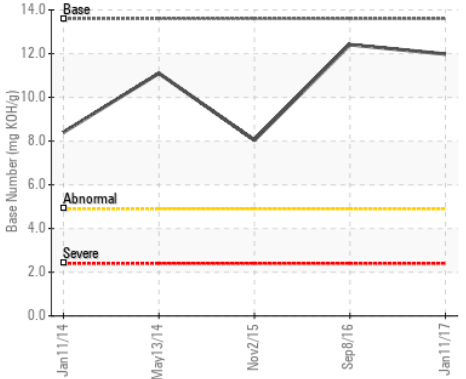
Chromium (ppm)



Silicon (ppm)



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LECP159516 **Received** : 16 Jan 2017
Lab Number : 04142978 **Diagnosed** : 18 Jan 2017
Unique Number : 7666364 **Diagnostician** : Don Baldrige
Test Package : MOB 2 (Additional Tests: PQ)

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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)