



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
Store 3 - Norton
Machine Id
JOHN DEERE 350G 1FF350GXCODE809735
Component
Diesel Engine
Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (29 QTS)

RECOMMENDATION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LECP188033	LECP177890	LECP151159
Sample Date		Client Info		07 Aug 2018	27 Dec 2017	25 May 2016
Machine Age	hrs	Client Info		3859	3374	1936
Oil Age	hrs	Client Info		860	0	471
Filter Age	hrs	Client Info		860	0	471
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Changed	Not Changed	Changed
Sample Status				ABNORMAL	NORMAL	ABNORMAL

WEAR

Cylinder, crank, or cam shaft wear is indicated.

Iron	ppm	ASTM D5185m	>51	▲ 144	45	▲ 88
Chromium	ppm	ASTM D5185m	>11	3	1	3
Nickel	ppm	ASTM D5185m	>5	3	<1	3
Titanium	ppm	ASTM D5185m		2	2	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>31	2	2	5
Lead	ppm	ASTM D5185m	>26	0	0	0
Copper	ppm	ASTM D5185m	>26	4	3	▲ 99
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

CONTAMINATION

There is no indication of any contamination in the oil.

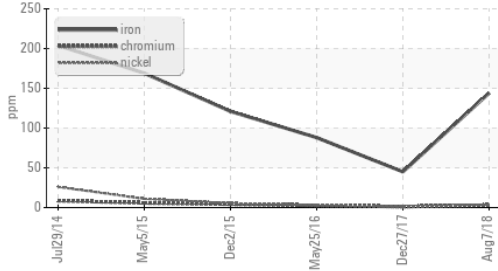
Silicon	ppm	ASTM D5185m	>22	4	6	5
Potassium	ppm	ASTM D5185m	>20	18	1	4
Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.8	0.2	0.3
Nitration	Abs/cm	*ASTM D7624	>25	11	6.	6.
Sulfation	Abs/.1mm	*ASTM D7415	>35	22.9	19.	19.
Silt	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

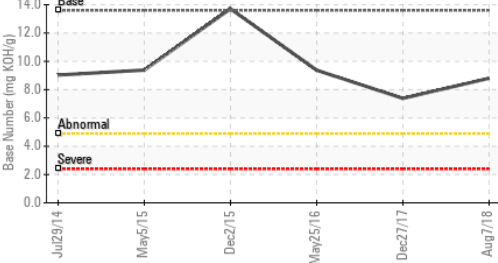
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>31	23	5	6
Boron	ppm	ASTM D5185m		18	64	256
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m		11	5	93
Manganese	ppm	ASTM D5185m		2	<1	2
Magnesium	ppm	ASTM D5185m		723	646	453
Calcium	ppm	ASTM D5185m		1383	1255	1525
Phosphorus	ppm	ASTM D5185m		967	927	832
Zinc	ppm	ASTM D5185m		1132	1051	1126
Sulfur	ppm	ASTM D5185m		3058	2963	2797
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.9	12.	11.
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.8	7.38	9.37
Visc @ 100°C	cSt	ASTM D445	15.4	13.77	14.54	13.7

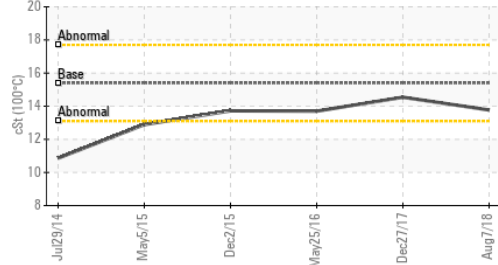
▲ Ferrous Alloys



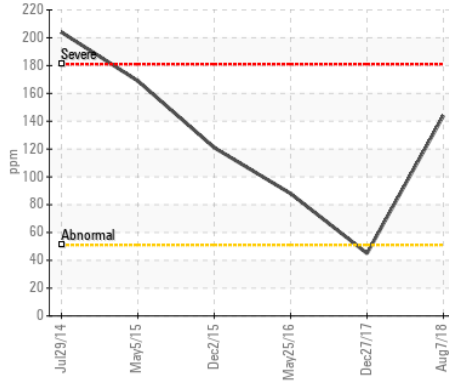
Base Number



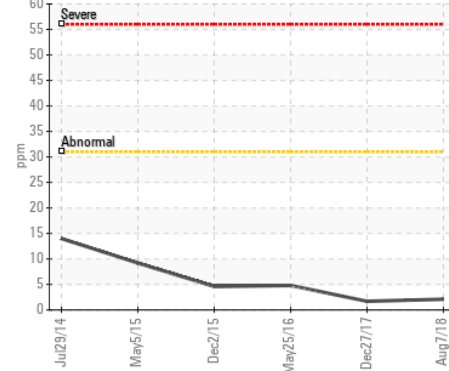
Viscosity @ 100°C



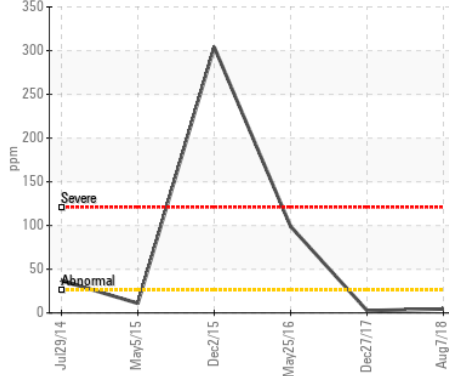
▲ Iron (ppm)



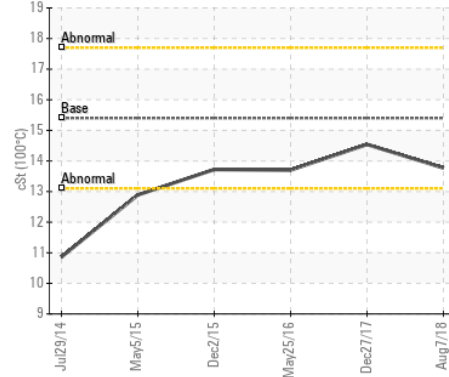
Aluminum (ppm)



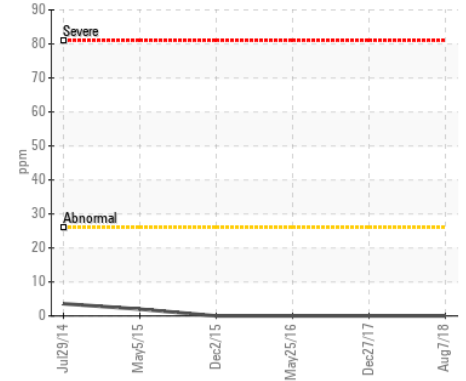
Copper (ppm)



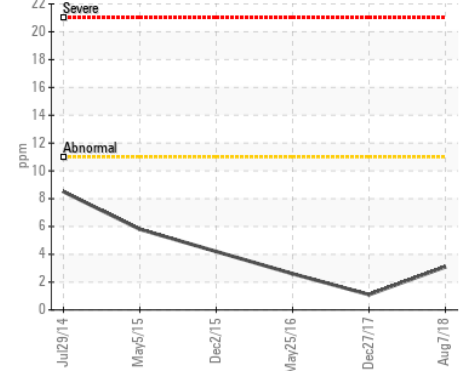
Viscosity @ 100°C



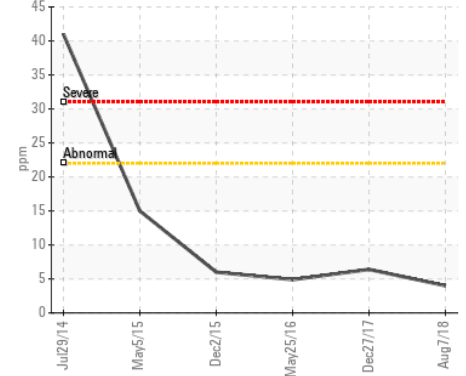
Lead (ppm)



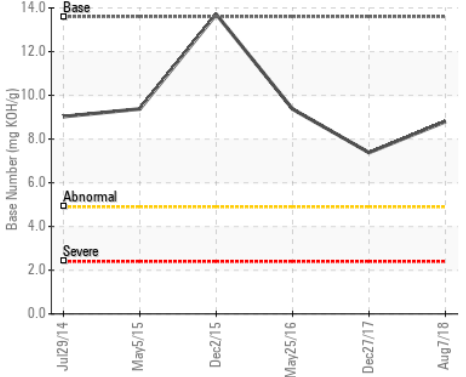
Chromium (ppm)



Silicon (ppm)



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LECP188033 **Received** : 09 Aug 2018
Lab Number : 04528508 **Diagnosed** : 10 Aug 2018
Unique Number : 8292338 **Diagnostician** : Don Baldrige
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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