



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Store 3 - Norton
 Machine Id
JOHN DEERE 350G 1FF350GXCLE808809
 Component
Diesel Engine
 Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (7 GAL)

RECOMMENDATION

No corrective action is recommended at this time. 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		LECP134220	---	---
Sample Date		Client Info		29 Jan 2013	---	---
Machine Age	hrs	Client Info		582	---	---
Oil Age	hrs	Client Info		582	---	---
Filter Age	hrs	Client Info		582	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				ABNORMAL	---	---

WEAR

The copper level is abnormal. All other metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m		95	---	---
Chromium	ppm	ASTM D5185m		2	---	---
Nickel	ppm	ASTM D5185m		5	---	---
Titanium	ppm	ASTM D5185m		0	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m		6	---	---
Lead	ppm	ASTM D5185m		2	---	---
Copper	ppm	ASTM D5185m		▲ 306	---	---
Tin	ppm	ASTM D5185m		2	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

There is no indication of any contamination in the component.

Silicon	ppm	ASTM D5185m		8	---	---
Potassium	ppm	ASTM D5185m		7	---	---
Fuel	%	ASTM D3524		0.0	---	---
Water		WC Method		NEG	---	---
Glycol		WC Method		NEG	---	---
Soot %	%	*ASTM D7844		0.4	---	---
Nitration	Abs/cm	*ASTM D7624		9.	---	---
Sulfation	Abs/.1mm	*ASTM D7415		24.	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual		NEG	---	---

FLUID CONDITION

The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		8	---	---
Boron	ppm	ASTM D5185m		172	---	---
Barium	ppm	ASTM D5185m		2	---	---
Molybdenum	ppm	ASTM D5185m		192	---	---
Manganese	ppm	ASTM D5185m		3	---	---
Magnesium	ppm	ASTM D5185m		600	---	---
Calcium	ppm	ASTM D5185m		1474	---	---
Phosphorus	ppm	ASTM D5185m		898	---	---
Zinc	ppm	ASTM D5185m		994	---	---
Sulfur	ppm	ASTM D5185m		2325	---	---
Oxidation	Abs/.1mm	*ASTM D7414		19.	---	---
Base Number (BN)	mg KOH/g	ASTM D2896		9.77	---	---
Visc @ 100°C	cSt	ASTM D445		11.73	---	---
Fluid Type		*In-house		UNKNOWN	---	---

