

## WEAR ABNORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

## Area Store 1 - Cowen Machine Id JOHN DEERE 350G 1FF350GXVDE809297

Component Diesel Engine

## JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (7 GAL)

					( )		
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		LECP193275		
	Sample Date		Client Info		08 May 2019		
	Machine Age	hrs	Client Info		5816		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
			Client III0		ABNORMAL		
	Sample Status						
WEAR	Iron	nnm	ASTM D5185m	<u>51</u>	<b>A</b> 83		
Cylinder, crank, or cam shaft wear is indicated.		ppm			1		
	Chromium	ppm	ASTM D5185m				
	Nickel	ppm	ASTM D5185m	>5	2		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	>31	6		
	Lead	ppm	ASTM D5185m	>26	5		
	Copper	ppm	ASTM D5185m	>26	8		
	Tin	ppm	ASTM D5185m	>4	0		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
		Scalai	visuai	NONL			
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	8		
CONTAMINATION	Potassium	ppm	ASTM D5185m		0		
There is no indication of any contamination in the oil.	Fuel	ppiii	WC Method	>2.1	ہ <1.0		
		0/					
	Water	%	ASTM D6304		0.169		
	ppm Water	ppm	ASTM D6304	>2100	1690		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.5		
	Nitration	Abs/cm	*ASTM D7624	>20	13.9		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	26.1		
	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		*Visual	>0.21	NEG		
			visuai	20.21			
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	6		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		126		
	Barium		ASTM D5185m		0		
		ppm					
	Molybdenum	ppm	ASTM D5185m		101		
	Manganese	ppm	ASTM D5185m		1		
	Magnesium	ppm	ASTM D5185m		688		
	Calcium	ppm	ASTM D5185m		1586		
	Phosphorus	ppm	ASTM D5185m		747		
	Zinc	ppm	ASTM D5185m		865		

Sulfur

Oxidation

Visc @ 100°C cSt

2171

21.9

8.8

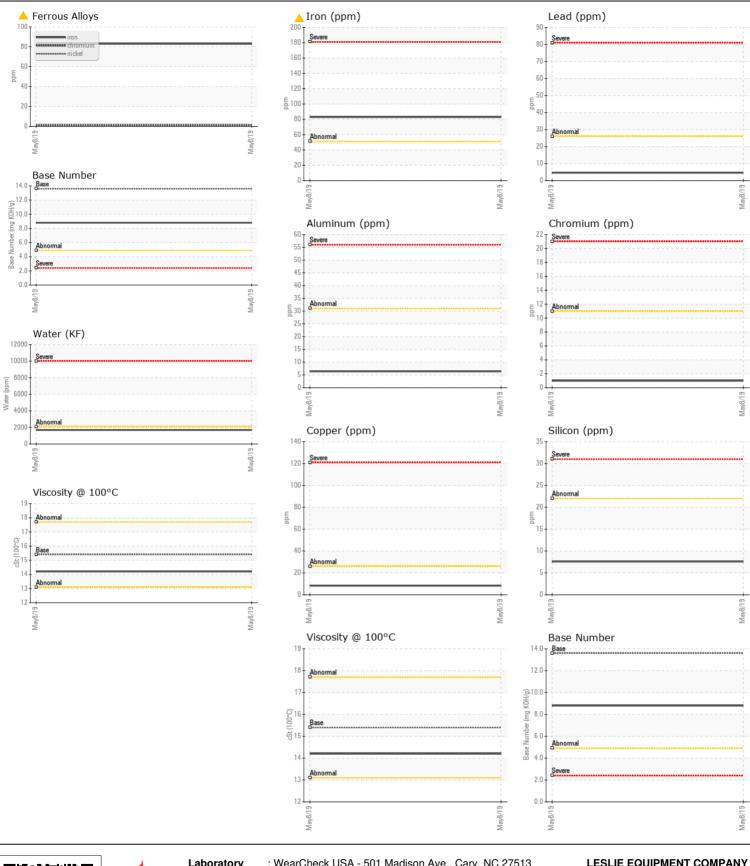
14.2

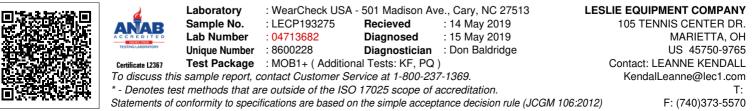
ppm ASTM D5185m

Base Number (BN) mg KOH/g ASTM D2896 13.6

Abs/.1mm \*ASTM D7414 >25

ASTM D445 15.4





Contact/Location: STORE 9 - MARIETTA - LEANNE KENDALL - LESMAROH