

## [HOUTCHELL CONCRETE] Machine Id JOHN DEERE 160G VNF054654

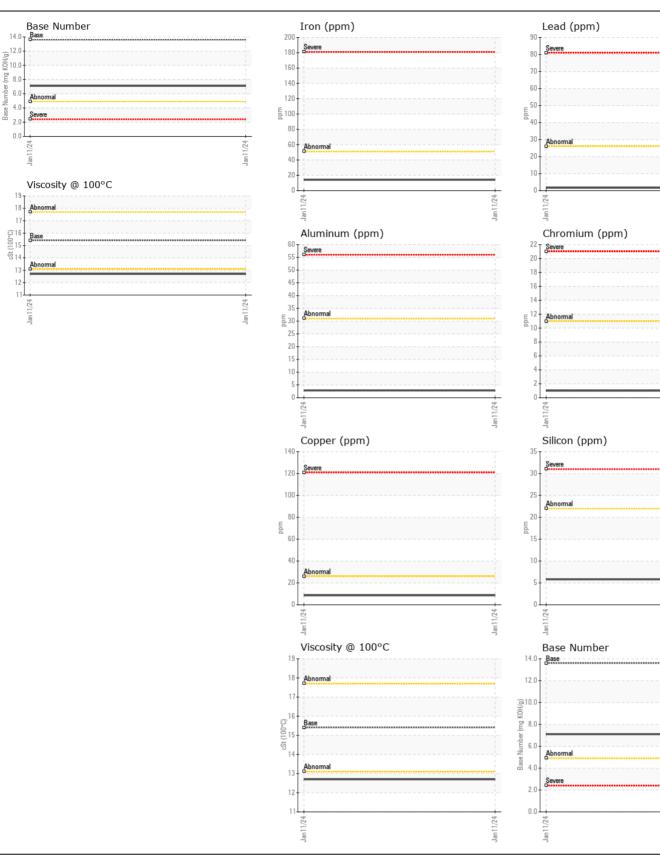
## Component Diesel Engine

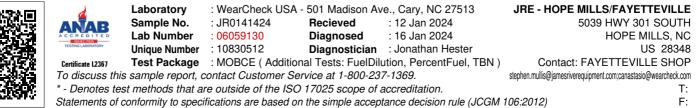
## JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

	GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0141424		
	Sample Date		Client Info		11 Jan 2024		
	Machine Age	hrs	Client Info		770		
	Oil Age	hrs	Client Info		350		
	Filter Age	hrs	Client Info		350		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		N/A		
	Sample Status				NORMAL		
WEAR	Iron	ppm	ASTM D5185m	>51	14		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	1		
	Nickel	ppm	ASTM D5185m	>5	<1		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	>3	0		
	Aluminum	ppm	ASTM D5185m	>31	3		
	Lead	ppm	ASTM D5185m	>26	2		
	Copper	ppm	ASTM D5185m	>26	9		
	Tin	ppm	ASTM D5185m	>4	<1		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	6		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	2		
	Fuel	%	ASTM D3524	>2.1	<1.0		
	Water		WC Method	>0.21	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.2		
	Nitration	Abs/cm	*ASTM D7624	>20	7.3		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.3		
	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	>0.21	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	2		
	Boron	ppm	ASTM D5185m		436		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		3		
	Molybdenum	ppm	ASTM D5185m		115		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		449		
	Calcium	ppm	ASTM D5185m		1486		
	Phosphorus	ppm	ASTM D5185m		1033		
	Zinc	ppm	ASTM D5185m		1225		
	Sulfur	ppm	ASTM D5185m		3604		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.5		
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	7.1		
	V/ 0 10000	- 01	AOTA DATE	4 - 4	10-	1	

12.7

Visc @ 100°C cSt ASTM D445 15.4





\$8

Contact/Location: FAYETTEVILLE SHOP - RWMFAY