

## [05w34160] Machine Id JOHN DEERE 298589 Component Diesel Engine

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

	GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		JR0132867	JR0101358	
Resample at the next service interval to monitor. NOTE: Please	Sample Date		Client Info		27 Jun 2022	21 Sep 2021	
provide information regarding reservoir capacity, filter type and micron rating with next sample.	Machine Age	hrs	Client Info		4398	3777	
rating with next sample.	Oil Age	hrs	Client Info		621	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	ABNORMAL	
WEAR	Iron	ppm	ASTM D5185m	>51	35	48	
	Chromium	ppm	ASTM D5185m		<1	2	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	_ <1	
	Titanium	ppm	ASTM D5185m		<1	<1	
	Silver	ppm	ASTM D5185m		<1	0	
	Aluminum	ppm	ASTM D5185m	>31	8	11	
	Lead	ppm	ASTM D5185m		19	<u>▲</u> 90	
	Copper	ppm	ASTM D5185m		4	6	
	Tin	ppm	ASTM D5185m		1	0	
	Vanadium	ppm	ASTM D5185m		<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m		8	8	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		2	3	
There is no indication of any contamination in the oil.	Fuel		WC Method		<1.0	<1.0	
	Water		WC Method	>0.21	NEG	NEG	
	Glycol		WC Method	0	NEG	NEG	
	Soot %	%	*ASTM D7844		0.9	1.2	
	Nitration	Abs/cm	*ASTM D7624		10.1	12.4	
	Sulfation	Abs/.1mm	*ASTM D7415		27.0	29.6	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	2	3	
The PN regult indicates that there is quitable alkelinity remaining in the	Boron	ppm	ASTM D5185m		95	59	
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		<1	0	
oil. The condition of the oil is suitable for further service.	Molybdenum	ppm	ASTM D5185m		211	213	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m		751	768	
	Calcium	ppm	ASTM D5185m		1607	1738	
	Phosphorus	ppm	ASTM D5185m		881	872	
	Zinc	ppm	ASTM D5185m		1157	1068	
	Sulfur	ppm	ASTM D5185m		3509	2334	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	24.0	24.6	

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

Visc @ 100°C cSt ASTM D445 15.4

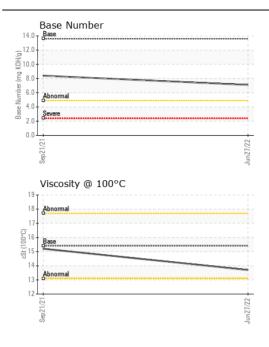
15.2

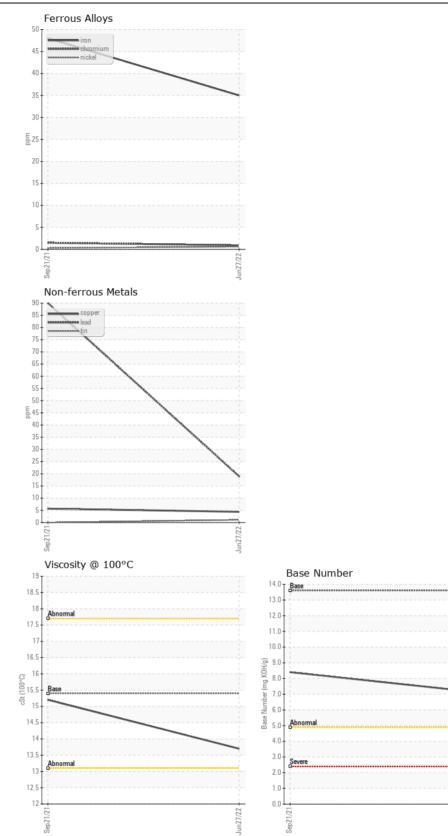
8.4

7.1

13.7

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		Sample No.	: JR0132867	Recieved	: 30 Jun 2022	g	107 OWENS DRIVE
	ANAB	Lab Number	: 05581243	Diagnosed	: 01 Jul 2022	MA	NASSAS PARK, VA
81	TESTING LABORATORY	Unique Number	: 10035669	Diagnostician	: Wes Davis		US 20111
	Certificate L2367	Test Package	: CONST ( Addition	nal Tests: TBN )			Contact: DON VEST
	To discuss this	s sample report, o	contact Customer Se	ervice at 1-800-23	7-1369.	dvest@jame	sriverequipment.com
			re outside of the ISC				T: (703)631-8500
					tance decision rule (J0	CGM 106:2012)	F: (703)631-4715

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

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Laboratory

Submitted By: EDDIE BYSTRAN

**JRE - MANASSAS PARK** 

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