

Machine Id JOHN DEERE 1023E 1LV1023ELGG102086 Component Diesel Engine

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

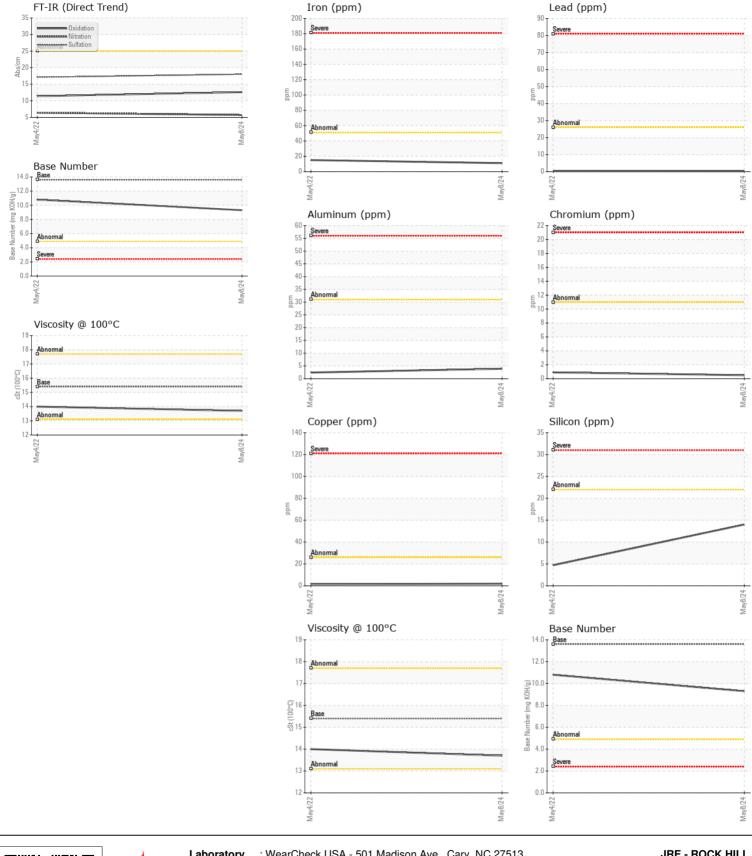
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (*	GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0191556	JR0115548	
	Sample Date		Client Info		08 May 2024	04 May 2022	
	Machine Age	hrs	Client Info		297	297	
	Oil Age	hrs	Client Info		297	297	
	Filter Age	hrs	Client Info		0	297	
	Oil Changed		Client Info		N/A	Changed	
	Filter Changed		Client Info		N/A	Changed	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185m	>51	11	15	
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m	>11	<1	<1	
	Nickel	ppm	ASTM D5185m	>5	<1	0	
	Titanium	ppm	ASTM D5185m		<1	<1	
	Silver	ppm	ASTM D5185m	>3	0	<1	
	Aluminum	ppm	ASTM D5185m	>31	4	2	
	Lead	ppm	ASTM D5185m	>26	<1	<1	
	Copper	ppm	ASTM D5185m	>26	2	2	
	Tin	ppm	ASTM D5185m	>4	<1	<1	
	Vanadium	ppm	ASTM D5185m		<1	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION There is no indication of any contamination in the oil.	Silicon	ppm	ASTM D5185m	>22	14	5	
	Potassium	ppm	ASTM D5185m		3	1	
	Fuel	1-1-	WC Method		<1.0	<1.0	
	Water		WC Method		NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.1	0.1	
	Nitration	Abs/cm	*ASTM D7624	>20	5.7	6.4	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.0	17.1	
	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 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	3	2	
	Boron	ppm	ASTM D5185m		251	34	
	Barium	ppm	ASTM D5185m		<1	2	
	Molybdenum	ppm	ASTM D5185m		170	36	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m		670	123	
	Calcium	ppm	ASTM D5185m		1298	3347	
	Phosphorus	ppm	ASTM D5185m		792	1235	
	Zinc	ppm	ASTM D5185m		936	1432	
	Sulfur	ppm	ASTM D5185m		3346	5645	
	Oxidation	Abs/.1mm	*ASTM D7414		12.6	11.4	
	Base Number (BN)				9.3	10.8	
		oCt	ACTM D445	15 /	107	1/1 0	

Visc @ 100°C cSt

ASTM D445 15.4

14.0

13.7



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **JRE - ROCK HILL** Sample No. : JR0191556 Received 380 ANDERSON ROAD : 13 May 2024 Ē Lab Number : 06178223 Tested ROCK HILL, SC : 15 May 2024 Unique Number : 11029549 : 15 May 2024 - Wes Davis US 29730 Diagnosed Test Package : MOBCE (Additional Tests: TBN) Contact: P WILLIS Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. pwillis@jamesriverequipment.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: F: (803)325-1506 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Submitted By: STEPHANIE YOUNG Page 2 of 2