

## [W00346] Machine Id JOHN DEERE 3035D 1PY3035DLMB001457 Component Diesel Engine Fluid JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- 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		JR0159090	JR0159131	JR008532
	Sample Date		Client Info		13 Jun 2024	25 Jan 2023	15 Sep 202
	Machine Age	hrs	Client Info		418	201	62
	Oil Age	hrs	Client Info		217	0	62
	Filter Age	hrs	Client Info		217	0	62
	Oil Changed		Client Info		Changed	Changed	Changeo
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ATTENTION	ATTENTION	ABNORMA
WEAR	Iron	ppm	ASTM D5185m	>51	11	10	11
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
	Nickel	ppm	ASTM D5185m		0	<1	1
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m	>3	0	0	<1
	Aluminum	ppm	ASTM D5185m	>31	4	5	4
	Lead	ppm	ASTM D5185m		1	3	5
	Copper	ppm	ASTM D5185m		2	3	14
	Tin	ppm	ASTM D5185m		0	<1	1
	Vanadium	ppm	ASTM D5185m		<1	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NON
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NON
CONTAMINATION	Silicon	ppm	ASTM D5185m	<u>_</u>	8	16	<b>4</b> 1
	Potassium	ppm	ASTM D5185m		1	2	3
There is no indication of any contamination in the oil.	Fuel	%	ASTM D3103ml		- <1.0	2.6	▲ 2.2
	Water	70	WC Method		NEG	NEG	NEG
	Glycol		WC Method	20.L1	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	8.1	8.4	6.2
	Sulfation	Abs/.1mm	*ASTM D7415		19.7	18.9	18.7
	Silt	scalar	*Visual	NONE	NONE	NONE	NON
	Debris	scalar	*Visual	NONE	NONE	NONE	NON
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NON
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORN
	Emulsified Water		*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium		ASTM D5185m	<u>_</u> Q1	1	3	10
	Boron	ppm	ASTM D5185m	201	239	200	220
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm	ASTM D5185m			0	0
	Molybdenum	ppm	ASTM D5185m		<1 251	222	218
	Manganese	ppm	ASTM D5185m			<1	210
	Magnesium	ppm	ASTM D5185m		<1 908	837	677
	Calcium	ppm	ASTM D5185m		1615	1316	1757
	Phosphorus	ppm	ASTM D5185m		1015	848	917
	Zinc	ppm	ASTM D5185m		1025	993	1107
	Sulfur	ppm	ASTM D5185m			993 3547	3537
	Oxidation	ppm Abs/.1mm	*ASTM D5165111	> 2E	4033	14.3	13.8
					15.1		
	Base Number (BN)	nig KOH/g	ASTIVI D2896	13.6	8.8	9.5	10.2

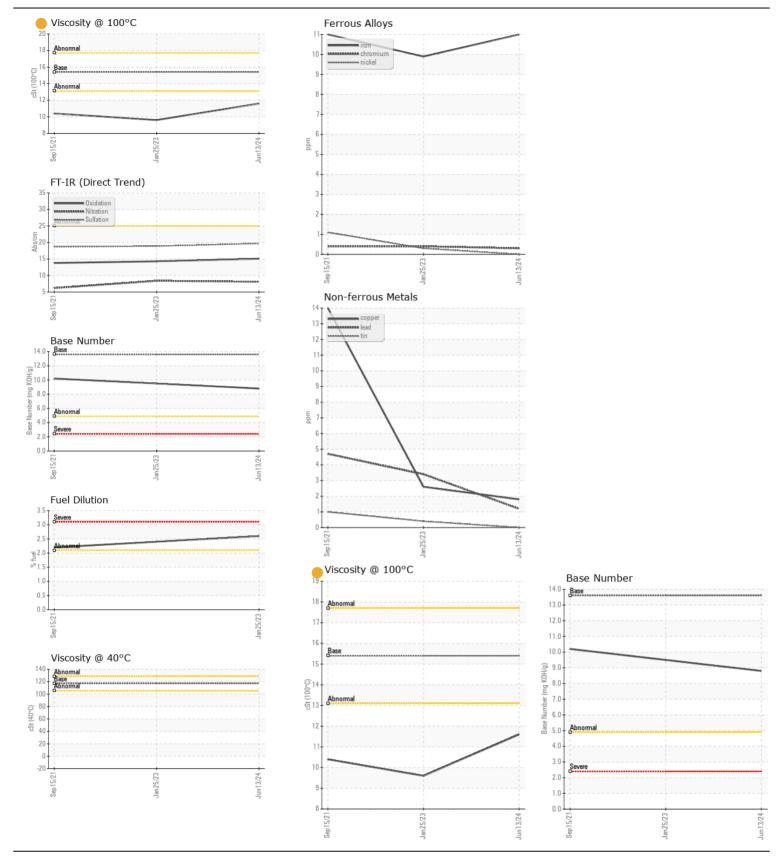
Visc @ 100°C cSt

ASTM D445 15.4

11.6

9.6

**1**0.4



**JRE - DILLWYN** Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : JR0159090 Received 284 MAIN ST : 28 Jun 2024 竇 Lab Number : 06223273 Tested DILLWYN, VA : 01 Jul 2024 Unique Number : 11101470 Diagnosed : 01 Jul 2024 - Jonathan Hester US 23936 Test Package : CONST (Additional Tests: FuelDilution, KV40, TBN) Contact: MIKE FALVELLA Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. mike.falvella@jamesriverequipment.com 1 \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (434)983-1633 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Contact/Location: MIKE FALVELLA - JAMDILVA Page 2 of 2