WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL ATTENTION

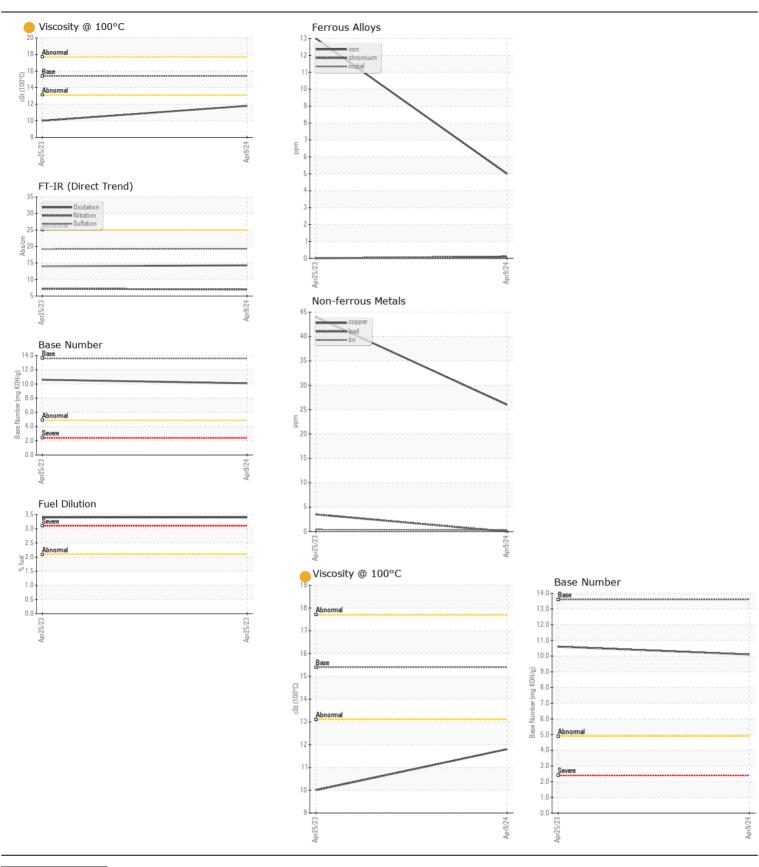
Machine Id

## JOHN DEERE 3038E 1LV3038EPMM135323

Diesel Engine

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		JR0189876	JR0135454	
	Sample Date		Client Info		09 Apr 2024	25 Apr 2023	
	Machine Age	hrs	Client Info		154	84	
	Oil Age	hrs	Client Info		154	84	
	Filter Age	hrs	Client Info		154	84	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				ATTENTION	ABNORMAL	
VE A D							
WEAR	Iron	ppm	ASTM D5185m		5	13	
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m		<1	0	
	Nickel	ppm	ASTM D5185m	>5	0	0	
	Titanium	ppm	ASTM D5185m		0	<1	
	Silver	ppm	ASTM D5185m		0	<1	
	Aluminum	ppm	ASTM D5185m		4	<1	
	Lead	ppm	ASTM D5185m		0	4	
	Copper	ppm	ASTM D5185m		26	44	
	Tin	ppm	ASTM D5185m	>4	<1	<1	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	nnm	ASTM D5185m	. 22	25	62	
CONTAIMINATION	Potassium	ppm	ASTM D5185m		25 <1	1	
There is no indication of any contamination in the oil.	Fuel	ppm %	ASTM D3163111		<1.0	▲ 3.4	
	Water	/0	WC Method		NEG	NEG	
	Glycol		WC Method	>0.21	NEG	NEG	
	Soot %	%	*ASTM D7844	. 2	0.1	0.1	
	Nitration		*ASTM D7624		7.0	7.2	
	Sulfation	Abs/.1mm	*ASTM D7024		19.3	19.2	
	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	
			v 150aa1	70.21			
LUID CONDITION	Sodium	ppm	ASTM D5185m	>31	11	15	
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Boron	ppm	ASTM D5185m		297	208	
	Barium	ppm	ASTM D5185m		3	0	
	Molybdenum	ppm	ASTM D5185m		233	209	
	Manganese	ppm	ASTM D5185m		2	1	
	Magnesium	ppm	ASTM D5185m		778	611	
	Calcium	ppm	ASTM D5185m		1407	1861	
	Phosphorus	ppm	ASTM D5185m		892	903	
	Zinc	ppm	ASTM D5185m		1010	1084	
	Sulfur	ppm	ASTM D5185m		3345	4172	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.3	14.0	
	Base Number (BN)		ASTM D2896	13.6	10.1	10.6	
	Visc @ 100°C	cSt	ASTM D445		11.8	<u> </u>	







Report Id: JAMSOU [WUSCAR] 06155648 (Generated: 04/24/2024 14:30:48) Rev: 1

Laboratory Sample No. Unique Number : 10991071

: JR0189876 Lab Number : 06155648

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

Diagnosed Test Package : CONST ( Additional Tests: FuelDilution, TBN )

: 22 Apr 2024 : 23 Apr 2024

: 24 Apr 2024 - Jonathan Hester

JRE - LA CROSSE 38431 HWY 58 LA CROSSE, VA US 23950-1807 Contact: HUNTER GREEN

To discuss this sample report, contact Customer Service at 1-800-237-1369. \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. hgreen@jamesriverequipment.com T: (434)447-4325 F: (434)447-1329

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: HUNTER GREEN - JAMSOU