WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

Machine Id

JOHN DEERE 3038E C281421 (S/N 1LV3038ECEH610928)

Diesel Engine

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		JR0196757		
	Sample Date		Client Info		26 Feb 2024		
	Machine Age	hrs	Client Info		88		
	Oil Age	hrs	Client Info		33		
	Filter Age	hrs	Client Info		33		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
WEAR	Iron	ppm	ASTM D5185m	>51	5		
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m	>11	<1		
	Nickel	ppm	ASTM D5185m	>5	<1		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	>3	<1		
	Aluminum	ppm	ASTM D5185m	>31	4		
	Lead	ppm	ASTM D5185m	>26	<1		
	Copper	ppm	ASTM D5185m	>26	3		
	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	17		
OONTAMINATION	Potassium	ppm	ASTM D5185m		2		
There is no indication of any contamination in the oil.	Fuel	ppiii	WC Method	>2.1	<1.0		
	Water		WC Method		NEG		
	Glycol		WC Method	, 0.2.	NEG		
	Soot %	%	*ASTM D7844	>3	0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	6.7		
	Sulfation	Abs/.1mm	*ASTM D7415		19.6		
	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	nnm	ASTM D5185m	√ 21	1		
LOID CONDITION	Boron	ppm	ASTM D5185m	701	227		
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		2		
	Molybdenum	ppm	ASTM D5185m		230		
	Manganese	ppm	ASTM D5185m		1		
	Magnesium	ppm	ASTM D5185m		710		
	Calcium	ppm	ASTM D5185m		1233		
	Phosphorus	ppm	ASTM D5185m		765		
	Zinc	ppm	ASTM D5185m		924		
	Sulfur	ppm	ASTM D5185m		2899		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.9		
	Base Number (BN)				9.6		
		99					





Laboratory

Sample No.

Lab Number : 06102720 Unique Number : 10900950 Test Package: MOBCE (Additional Tests: TBN)

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0196757 Received : 28 Feb 2024 **Tested** : 29 Feb 2024

Diagnosed

: 29 Feb 2024 - Wes Davis

JRE - EDINBURG 601 NORTH MAIN ST WOODSTOCK, VA US 22664

Contact: MIKE SECHLER MSECHLER@JAMESRIVEREQUIPMENT.COM

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.

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

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