WEAR CONTAMINATION **FLUID CONDITION**

NORMAL ATTENTION ATTENTION



Machine Id JOHN DEERE 624K 1DW624KZEB0635411

Diesel Engine

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		JR0201411	JR0201394	JR0201396
	Sample Date		Client Info		02 Apr 2024	11 Mar 2024	09 Feb 202
	Machine Age	hrs	Client Info		29188	28972	28765
	Oil Age	hrs	Client Info		216	207	228
	Filter Age	hrs	Client Info		216	207	228
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ATTENTION	ABNORMAL	SEVERE
VEAR	Iron	ppm	ASTM D5185m	>51	7	9	5
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	0	<1	0
	Nickel	ppm	ASTM D5185m		<1	1	0
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		1	2	2
	Lead	ppm	ASTM D5185m		0	2	5
	Copper	ppm	ASTM D5185m	>26	<1	3	3
	Tin	ppm	ASTM D5185m	>4	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
ONTAMINATION	Silicon	ppm	ASTM D5185m	>22	8	<u> </u>	▲ 32
	Potassium	ppm	ASTM D5185m	>20	3 3	<u> </u>	^ 260
Sodium and/or potassium levels remain elevated. Test for glycol is negative.	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol	%	*ASTM D2982		NEG	NEG	▲ 0.10
	Soot %	%	*ASTM D7844	>3	0.3	0.3	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	7.2	7.4	9.0
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.5	19.5	17.1
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORN
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Sodium	ppm	ASTM D5185m	>31	7 7	△ 346	<u>^</u> 617
	Boron	ppm	ASTM D5185m		93	43	110
	Barium	ppm	ASTM D5185m		0	<1	<1
	Molybdenum	ppm	ASTM D5185m	1.2	18	63	84
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m	24	194	517	50
	Calcium	ppm	ASTM D5185m		2012	1626	1783
	Phosphorus	ppm	ASTM D5185m	1064	1041	1201	1009
	Zinc	ppm	ASTM D5185m	1160	1220	1276	1077
	Sulfur	ppm	ASTM D5185m	4996	3811	3546	3910
	Oxidation	Abs/.1mm	*ASTM D7414		15.8	15.3	12.1
	Base Number (BN)	mg KOH/g	ASTM D2896	10.1	8.4	10.5	8.1
	Visc @ 100°C	cSt	ASTM D445		14.6	13.9	14.8







Certificate L2367

Laboratory Sample No.

: JR0201411 Lab Number : 06196371

Unique Number : 11058494

Received **Tested** Diagnosed

Test Package: CONST (Additional Tests: Glycol, TBN)

: 31 May 2024 : 04 Jun 2024

: 04 Jun 2024 - Jonathan Hester

2859 OLD LINVILLE RD MARION, NC US 28752

Contact: RICKY STYLES ricky_styles@baxter.com T: (828)756-4946

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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