



WEAR CONTAMINATION FLUID CONDITION **ABNORMAL** NORMAL **NORMAL**

Store 9 - Marietta [RO#146952]

JOHN DEERE 950K 1T0950KPAJF339847

Component Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (GAL)				.,		
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		LEC0046875	LEC0043464	LEC0041512
	Sample Date		Client Info		11 Jan 2024	04 Oct 2023	16 Jun 2023
	Machine Age	hrs	Client Info		2555	2034	1402
	Oil Age	hrs	Client Info		521	632	513
	Filter Age	hrs	Client Info		521	632	513
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	<u> </u>	51	47
Cylinder, crank, or cam shaft wear is indicated. All other component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	1	1	<1
	Nickel	ppm	ASTM D5185m	>4	1	<1	1
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	6	3	5
	Lead	ppm	ASTM D5185m	>40	1	1	<1
	Copper	ppm	ASTM D5185m	>330	20	81	3
	Tin	ppm	ASTM D5185m	>15	2	2	<1
	Vanadium	ppm	ASTM D5185m		<1	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>!20	11	12	9
	Potassium	ppm	ASTM D5185m	>20	2	2	<1
There is no indication of any contamination in the oil.	Fuel	%	ASTM D3524	>5	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.4	0.4	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	8.9	8.7	9.2
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.2	21.7	21.5
	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	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3	1	2
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		210	211	209
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		268	289	242
	Manganese	ppm	ASTM D5185m		2	<1	1
	Magnesium	ppm	ASTM D5185m		859	829	853
	Calcium	ppm	ASTM D5185m		1384	1474	1571
	Phosphorus	ppm	ASTM D5185m		944	938	926
	Zinc	ppm	ASTM D5185m		1126	1153	1161
	Sulfur	ppm	ASTM D5185m		2882	3254	3685
	Oxidation	Abs/.1mm	*ASTM D7414		16.2	16.0	15.7
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.5	8.2	9.0
		0.		4 - 4			

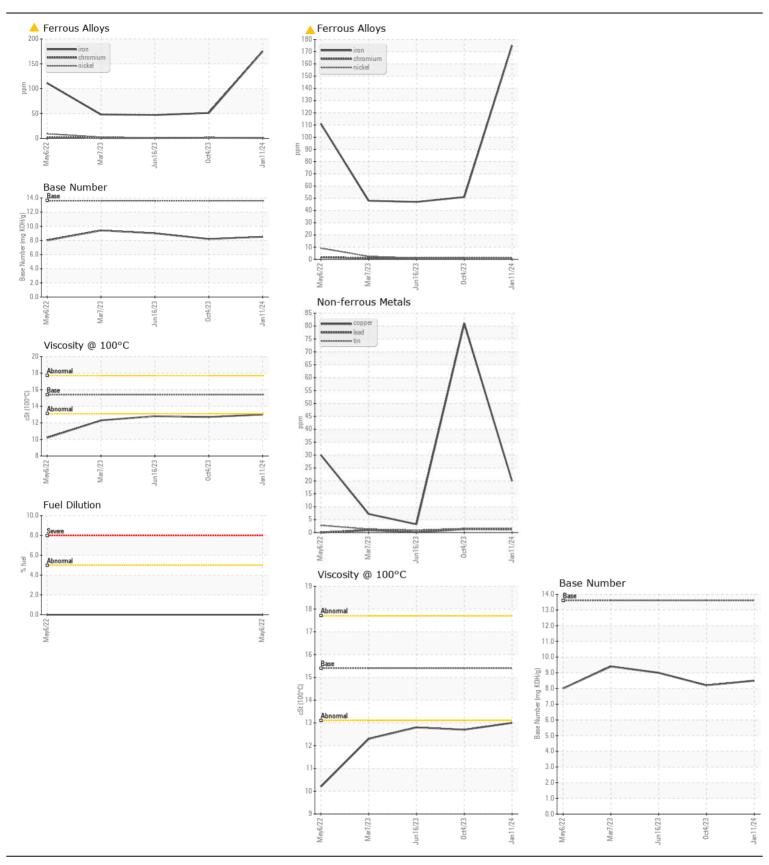
13.0

12.7

ASTM D445 15.4

Visc @ 100°C cSt

12.8







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: LEC0046875 : 06060846 : 10832228

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 16 Jan 2024

Diagnosed : 17 Jan 2024 Diagnostician : Jonathan Hester

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