



OIL ANALYSIS REPORT

WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL



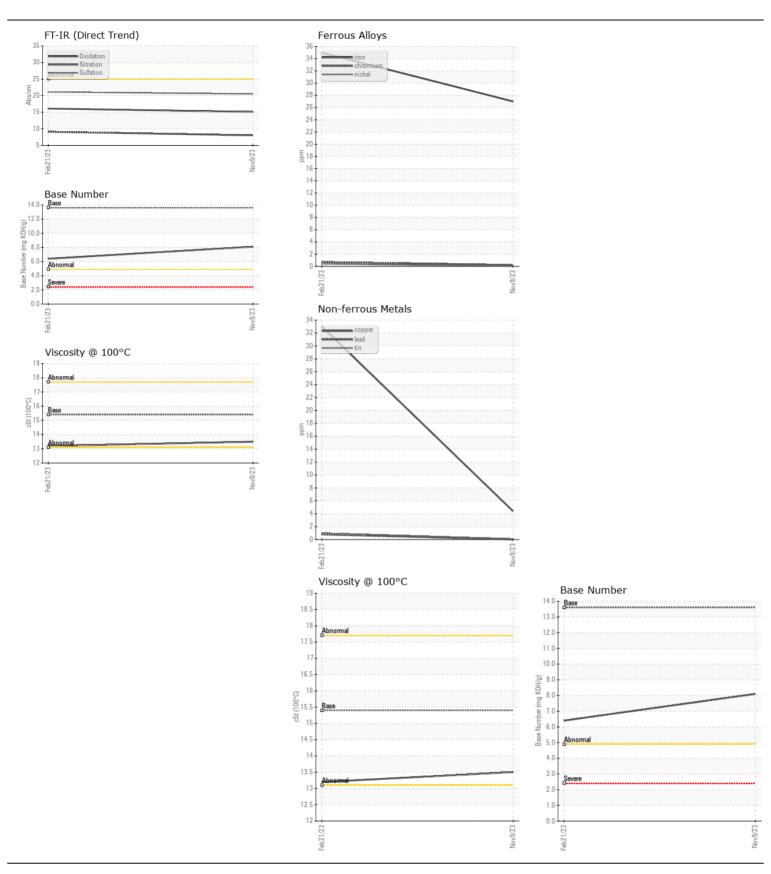
**Store 5 - Cross Lanes** 

## JOHN DEERE 950K 1T0950KPEJF343224

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (7 GAL)

JOHN DEERE ENGINE OIL PLO		(1	MAL)				
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		LEC0044972	LEC0024108	
Resample at the next service interval to monitor.	Sample Date		Client Info		09 Nov 2023	21 Feb 2023	
	Machine Age	hrs	Client Info		2952	1560	
	Oil Age	hrs	Client Info		238	423	
	Filter Age	hrs	Client Info		238	423	
	Oil Changed		Client Info		Not Changd	Not Changd	
	Filter Changed		Client Info		Not Changd	Not Changd	
	Sample Status				NORMAL	ABNORMAL	
WEAD			AOTM DE LOS			05	
WEAR  All component wear rates are normal.	Iron	ppm	ASTM D5185m		27	35	
	Chromium	ppm	ASTM D5185m		<1	<1	
	Nickel	ppm	ASTM D5185m	>5	0	<1	
	Titanium	ppm	ASTM D5185m	0	78	72	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m		3	3	
	Lead	ppm	ASTM D5185m ASTM D5185m		0	<1 ^ 33	
	Copper Tin	ppm	ASTM D5185m ASTM D5185m		4 <1	▲ 33 1	
	Vanadium	ppm	ASTM D5185m	>4	<1	<1	
	White Metal	ppm scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
<u></u>		Scalai	Visuai	NONL	INONE	INOINL	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>!20	5	6	
	Potassium	ppm	ASTM D5185m	>20	<1	4	
There is no indication of any contamination in the oil.	Fuel		WC Method	>2.1	<1.0	<1.0	
	Water		WC Method	>0.21	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.4	0.5	
	Nitration	Abs/cm	*ASTM D7624	>20	8.0	9.1	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.5	21.1	
	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	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	<b>\31</b>	4	<1	
I LOID CONDITION	Boron	ppm	ASTM D5185m	701	80	44	
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		0	0	
	Molybdenum	ppm	ASTM D5185m		9	21	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m		456	551	
	Calcium	ppm	ASTM D5185m		1684	1673	
	Phosphorus	ppm	ASTM D5185m		917	965	
	Zinc	ppm	ASTM D5185m		1199	1229	
	Sulfur	ppm	ASTM D5185m		3438	3195	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.1	16.1	
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.1	6.4	
	Visc @ 100°C	cSt	ASTM D445	15.4	13.5	13.2	







Laboratory Sample No.

Lab Number : 06009479

Unique Number : 10743241

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : LEC0044972

**Tested** Diagnosed

Received

Test Package : CONST ( Additional Tests: TBN )

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

To discuss this sample report, contact Customer Service at 1-800-237-1369.

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

: 16 Nov 2023

: 17 Nov 2023

: 19 Nov 2023 - Don Baldridge

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