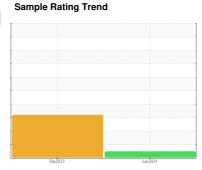


# **OIL ANALYSIS REPORT**

# [A34461] JOHN DEERE 450K 1T0450KXPMF390627

Component **Diesel Engine** 

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





## DIAGNOSIS

## Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

All component wear rates are normal.

## Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

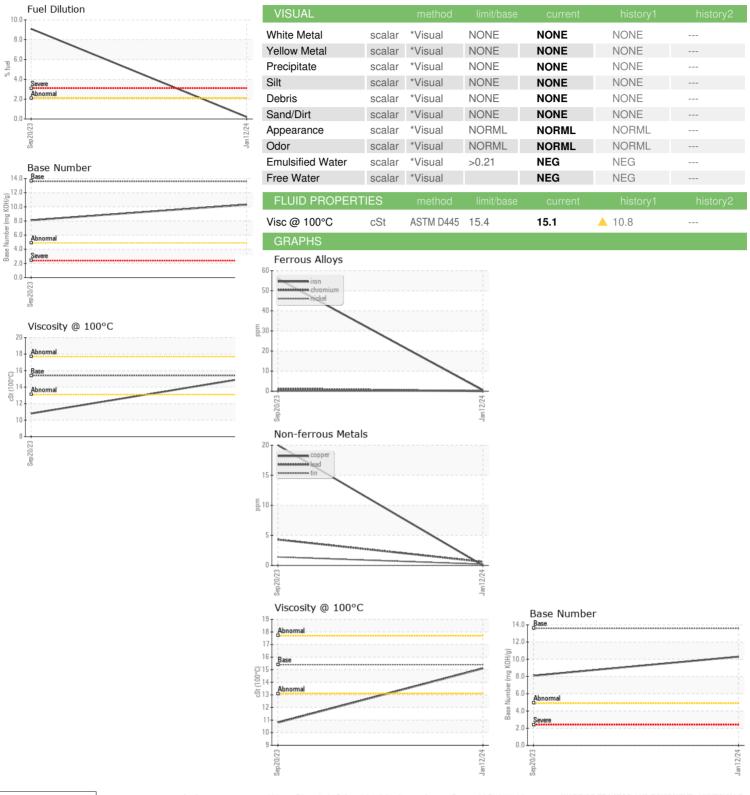
## **Fluid Condition**

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

40 ( GAL)			Sep 2023	Jan 2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WE0005960	WE0005624	
Sample Date		Client Info		12 Jan 2024	20 Sep 2023	
Machine Age	hrs	Client Info		1069	1012	
Oil Age	hrs	Client Info		60	512	
Oil Changed		Client Info		Not Changd	Changed	
Sample Status				NORMAL	SEVERE	
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.21	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>51	<1	<b>△</b> 56	
Chromium	ppm	ASTM D5185m	>11	0	1	
Nickel	ppm	ASTM D5185m	>5	<1	<1	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>31	4	6	
Lead	ppm	ASTM D5185m	>26	<1	4	
Copper	ppm	ASTM D5185m	>26	0	20	
Tin	ppm	ASTM D5185m	>4	<1	1	
Vanadium	ppm	ASTM D5185m		<1	<1	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		268	79	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		239	234	
Manganese	ppm	ASTM D5185m		<1	2	
Magnesium	ppm	ASTM D5185m		820	816	
Calcium	ppm	ASTM D5185m		1353	1373	
Phosphorus	ppm	ASTM D5185m		964	763	
Zinc	ppm	ASTM D5185m		1097	950	
Sulfur	ppm	ASTM D5185m		3192	3466	
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>22	8	9	
Sodium	ppm	ASTM D5185m	>31	<1	5	
Potassium	ppm	ASTM D5185m	>20	2	2	
Fuel	%	ASTM D3524	>2.1	0.2	9.1	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0	0.8	
Nitration	Abs/cm	*ASTM D7624	>20	5.5	12.1	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.6	25.5	
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.4	21.8	
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	10.3	8.1	



# **OIL ANALYSIS REPORT**







Laboratory Sample No. Lab Number

**Unique Number** 

: 06063314 : 10834696

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WE0005960 Recieved : 17 Jan 2024 Diagnosed : 19 Jan 2024 Diagnostician : Wes Davis

Test Package : CONST ( Additional Tests: PercentFuel, 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)

WARRIOR TRACTOR AND EQUIPMENT - HUNTSVILLE 25135 ONE AVIATION WAY SW

MADISON, AL US 35756

Contact: TODD MITCHELL t mitchell@warriortractor.com

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Report Id: WARMAD [WUSCAR] 06063314 (Generated: 01/25/2024 18:24:54) Rev: 1

Contact/Location: TODD MITCHELL - WARMAD