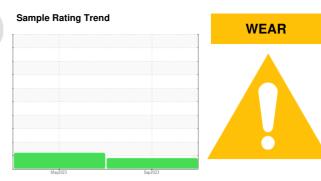


## **PROBLEM SUMMARY**





# **[W46757]**Machine Id JOHN DEERE 755K 1T0755KXLNF427051

**Diesel Engine** 

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

## **COMPONENT CONDITION SUMMARY**



## RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC T	EST RE	SULTS				
Sample Status				ABNORMAL	ABNORMAL	
Copper	ppm	ASTM D5185m	>26	<b>4</b> 55	<u></u> 584	

Customer Id: JAMASH Sample No.: JR0179984 Lab Number: 05965127 Test Package: CONST

To manage this report scan the QR code

To discuss the diagnosis or test data:

Don Baldridge +1 don.b505@comcast.net

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED	) ACTIONS			
Action	Status	Date	Done By	Description
Change Fluid			?	Oil and filter change at the time of sampling has been noted.
Change Filter			?	Oil and filter change at the time of sampling has been noted.

## HISTORICAL DIAGNOSIS

## 25 May 2023 Diag: Jonathan Hester

WEAR



Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in. Fuel content negligible. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.





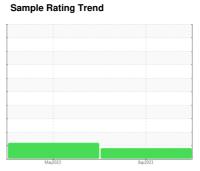
## **OIL ANALYSIS REPORT**



## [W46757] JOHN DEERE 755K 1T0755KXLNF427051

**Diesel Engine** 

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





## **DIAGNOSIS**

### Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

## Wear

The copper level has decreased, but is still abnormal. All other component wear rates are normal.

### Contamination

There is no indication of any contamination in the

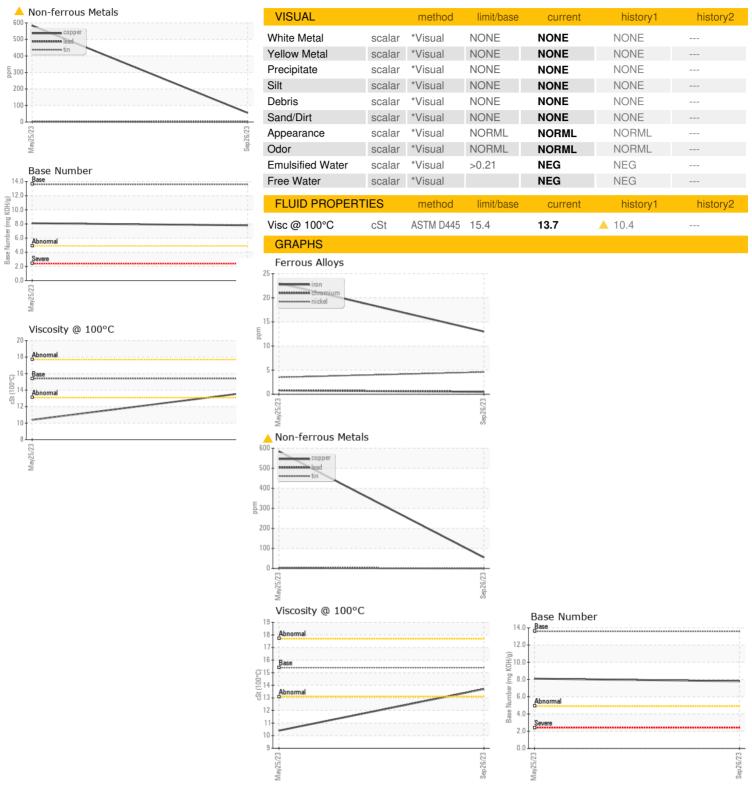
#### **Fluid Condition**

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

PLUS 30 II 13 W40 (	GAL)		May2023	Sep2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		JR0179984	JR0165053	
Sample Date		Client Info		26 Sep 2023	25 May 2023	
Machine Age	hrs	Client Info		1005	474	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Changed	Changed	
Sample Status				ABNORMAL	ABNORMAL	
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>2.1	<1.0	0.4	
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>51	13	23	
Chromium	ppm	ASTM D5185m	>11	<1	<1	
Nickel	ppm	ASTM D5185m	>5	5	4	
Γitanium	ppm	ASTM D5185m		0	<1	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m		4	4	
_ead	ppm	ASTM D5185m	>26	<1	2	
Copper	ppm	ASTM D5185m	>26	<u> </u>	<u></u> 584	
Γin	ppm	ASTM D5185m	>4	<1	3	
/anadium	ppm	ASTM D5185m		<1	<1	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		165	189	
Barium	ppm	ASTM D5185m		0	<1	
Molybdenum	ppm	ASTM D5185m		225	228	
Manganese	ppm	ASTM D5185m		<1	3	
Magnesium	ppm	ASTM D5185m		636	748	
Calcium	ppm	ASTM D5185m		1655	1588	
Phosphorus	ppm	ASTM D5185m		873	919	
Zinc	ppm	ASTM D5185m		1119	1143	
Sulfur	ppm	ASTM D5185m		3327	3583	
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>22	8	12	
Sodium	ppm	ASTM D5185m	>31	2	5	
Potassium	ppm	ASTM D5185m	>20	3	2	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.2	
Nitration	Abs/cm	*ASTM D7624	>20	8.8	9.3	
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.8	21.6	
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.3	16.6	
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	7.8	8.1	
Dasc Number (DIN)	my Normy	AO HVI DZ000	10.0	7.0	0.1	



## **OIL ANALYSIS REPORT**







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

: JR0179984 : 05965127 : 10671678

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

: 29 Sep 2023 : 02 Oct 2023 Diagnostician : Don Baldridge

Test Package : CONST ( Additional Tests: 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.

11047 LEADBETTER RD ASHLAND, VA US 23005

Contact: DAVID ZIEG dzieg@jamesriverequipment.com

Contact/Location: DAVID ZIEG - JAMASH

T: (804)798-6001 F: (804)798-0292

JRE - ASHLAND

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