

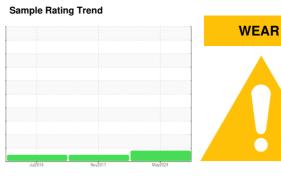
# **OIL ANALYSIS REPORT**



# [METHENY CONTRACTING] JOHN DEERE 650K 1T0650KXHEE268473

**Diesel Engine** 

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (5 GAL)



#### **DIAGNOSIS**

#### Recommendation

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.

### Wear

Cylinder, crank, or cam shaft wear is indicated.

#### 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.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		JR0179767	JRMC441717	JRMC404018
Sample Date		Client Info		13 May 2024	22 Nov 2017	25 Jul 2016
Machine Age	hrs	Client Info		8871	4957	2905
Oil Age	hrs	Client Info		500	0	0
Oil Changed		Client Info		Changed	N/A	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINATION	١	method	limit/base	current	history1	history2
Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>51	<b>▲</b> 63	13	13
Chromium	ppm	ASTM D5185m	>11	2	<1	<1
Nickel	ppm	ASTM D5185m	>5	1	<1	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	5	2	2
Lead	ppm	ASTM D5185m	>26	6	3	1
Copper	ppm	ASTM D5185m	>26	25	<1	2
Tin	ppm	ASTM D5185m	>4	0	<1	<1
Antimony	ppm	ASTM D5185m			0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		63	37	30
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m		197	44	48
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m		738	499	756
Calcium	ppm	ASTM D5185m		1456	1618	1246
Phosphorus	ppm	ASTM D5185m		852	814	712
Zinc	ppm	ASTM D5185m		1058	901	977
Sulfur	ppm	ASTM D5185m		3359	902	2680
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>22	10	5	5
Sodium	ppm	ASTM D5185m	>31	44	3	7
Potassium	ppm	ASTM D5185m	>20	7	<1	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.7	0.4	0.5
Nitration	Abs/cm	*ASTM D7624	>20	8.4	7.	7.
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.8	21.	19.
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.5	17.	14.
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	7.5	11.72	10.77



## **OIL ANALYSIS REPORT**







Certificate 12367

Laboratory Sample No.

: JR0179767 Lab Number : 06179991 Unique Number : 11031317

Test Package : CONST ( Additional Tests: TBN )

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

: 15 May 2024 : 16 May 2024 Diagnosed

: 17 May 2024 - Sean Felton

ASHLAND, VA US 23005 Contact: DAVID ZIEG

11047 LEADBETTER RD

JRE - ASHLAND

F: (804)798-0292

dzieg@jamesriverequipment.com T: (804)798-6001

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)