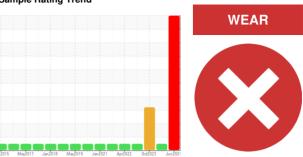


PROBLEM SUMMARY

Sample Rating Trend



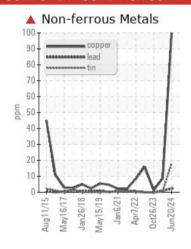


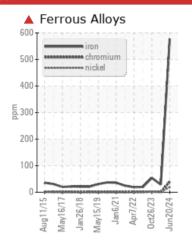
[W52450]
JOHN DEERE 700K 1T0700KXPEE270345

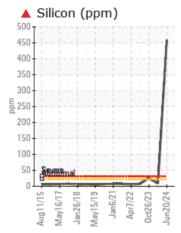
Diesel Engine

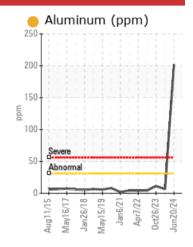
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

COMPONENT CONDITION SUMMARY









RECOMMENDATION

PROBLEMATIC TEST RESULTS									
Sample Status				SEVERE	NORMAL	ABNORMAL			
Iron	ppm	ASTM D5185m	>51	▲ 577	29	<u></u> 54			
Chromium	ppm	ASTM D5185m	>11	4 0	<1	3			
Nickel	ppm	ASTM D5185m	>5	1 8	1	2			
Copper	ppm	ASTM D5185m	>26	<u> </u>	9	1			
Tin	ppm	ASTM D5185m	>4	1 8	<1	0			
Silicon	ppm	ASTM D5185m	>22	459	9	△ 25			

Customer Id: JAMASH Sample No.: JR0212056 Lab Number: 06216563 Test Package: CONST

To manage this report scan the QR code

To discuss the diagnosis or test data: Sean Felton +1 919-379-4092 sfelton@wearcheckusa.com

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

RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Inspect Wear Source			?	We advise that you inspect for the source(s) of wear.		
Change Fluid			?	We recommend that you drain the oil and perform a filter service on this component if not already done.		
Change Filter			?	We recommend that you drain the oil and perform a filter service on this component if not already done.		
Resample			?	We recommend an early resample to monitor this condition.		
Check Dirt Access			?	We advise that you check the air filter, air induction system, and any areas where dirt may enter the component.		

HISTORICAL DIAGNOSIS

09 May 2024 Diag: Wes Davis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



DIRT

26 Oct 2023 Diag: Don Baldridge

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Resample at the next service interval to monitor. Cylinder, crank, or cam shaft wear is indicated. All other component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



27 Apr 2023 Diag: Wes Davis

Resample at the next service interval to monitor. All component wear rates are normal. The water content is negligible. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

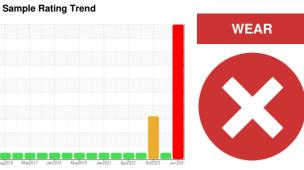


NORMAL





OIL ANALYSIS REPORT





Area [W52450] JOHN DEERE 700K 1T0700KXPEE270345 Diesel Engine

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

DIAGNOSIS

SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		JR0212056	JR0211540	JR0190260
Sample Number		Client Info		20 Jun 2024	09 May 2024	26 Oct 2023
Machine Age	hrs	Client Info		7152	6989	6438
Oil Age	hrs	Client Info		163	0	5110
Oil Changed	1113	Client Info		Not Changd	Changed	N/A
Sample Status		Ciletit iiiio		SEVERE	NORMAL	ABNORMAL
				SEVENE		
CONTAMINATION		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	▲ 577	29	▲ 54
Chromium	ppm	ASTM D5185m	>11	4 0	<1	3
Nickel	ppm	ASTM D5185m	>5	1 8	1	2
Titanium	ppm	ASTM D5185m		9	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	202	7	11
Lead	ppm	ASTM D5185m	>26	2	<1	0
Copper	ppm	ASTM D5185m	>26	100	9	1
Tin	ppm	ASTM D5185m	>4	1 8	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		230	179	166
Barium	ppm	ASTM D5185m		<1	0	4
Molybdenum	ppm	ASTM D5185m		217	226	258
Manganese	ppm	ASTM D5185m		9	<1	<1
Magnesium	ppm	ASTM D5185m		685	784	772
Calcium	ppm	ASTM D5185m		1523	1703	1276
Phosphorus	ppm	ASTM D5185m		924	948	910
Zinc	ppm	ASTM D5185m		1109	1131	1003
Sulfur	ppm	ASTM D5185m		3015	3486	2598
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>22	459	9	<u>^</u> 25
Sodium	ppm	ASTM D5185m	>31	4	4	5
Potassium	ppm	ASTM D5185m	>20	23	2	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.6	0.6
Nitration	Abs/cm	*ASTM D7624	>20	7.8	9.9	10.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.6	24.5	24.5
FLUID DEGRADA	TION _	method	limit/base	current	history1	history2
Ovidation	Aba/ 1	*ACTM DZ444	. OF	15.0	10 [10.1
Oxidation Base Number (BN)	Abs/.1mm mg KOH/g	*ASTM D7414 ASTM D2896	>25 13.6	15.3 8.7	18.5 8.4	19.1 7.9



OIL ANALYSIS REPORT







Certificate 12367

Sample No.

Lab Number : 06216563 Unique Number : 11089427

: JR0212056

Received Tested Diagnosed

: 21 Jun 2024 : 24 Jun 2024 Test Package : CONST (Additional Tests: TBN)

: 24 Jun 2024 - Sean Felton

ASHLAND, VA US 23005 Contact: DAVID ZIEG dzieg@jamesriverequipment.com

11047 LEADBETTER RD

To discuss this sample report, contact Customer Service at 1-800-237-1369. st - 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) F: (804)798-0292

Report Id: JAMASH [WUSCAR] 06216563 (Generated: 06/24/2024 12:06:26) Rev: 1

Submitted By: TECHNICIAN ACCOUNT

T: (804)798-6001