

PROBLEM SUMMARY

Sample Rating Trend

WEAR

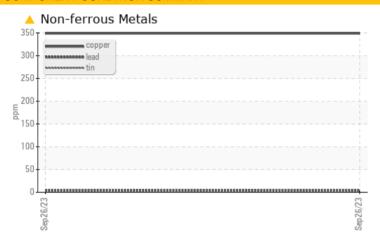


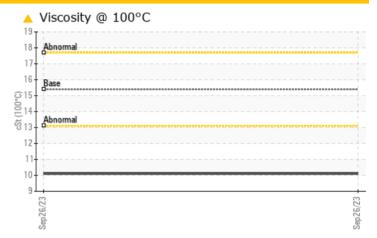
JOHN DEERE 524P 17213

Component **Diesel Engine**

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

COMPONENT CONDITION SUMMARY





RECOMMENDATION

Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS								
Sample Status				ABNORMAL				
Copper	ppm	ASTM D5185m	>26	A 349				
Visc @ 100°C	cSt	ASTM D445	15.4	10.1				

Customer Id: MURCAM Sample No.: MT0006052 Lab Number: 05967608 Test Package: CONST

To manage this report scan the QR code

To discuss the diagnosis or test data: Doug Bogart +1 (800)237-1369 x4016 dougb@wearcheckusa.com

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

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend **WEAR**

JOHN DEERE 524P 17213

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W

DIAGNOSIS

Recommendation

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.

Contamination

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

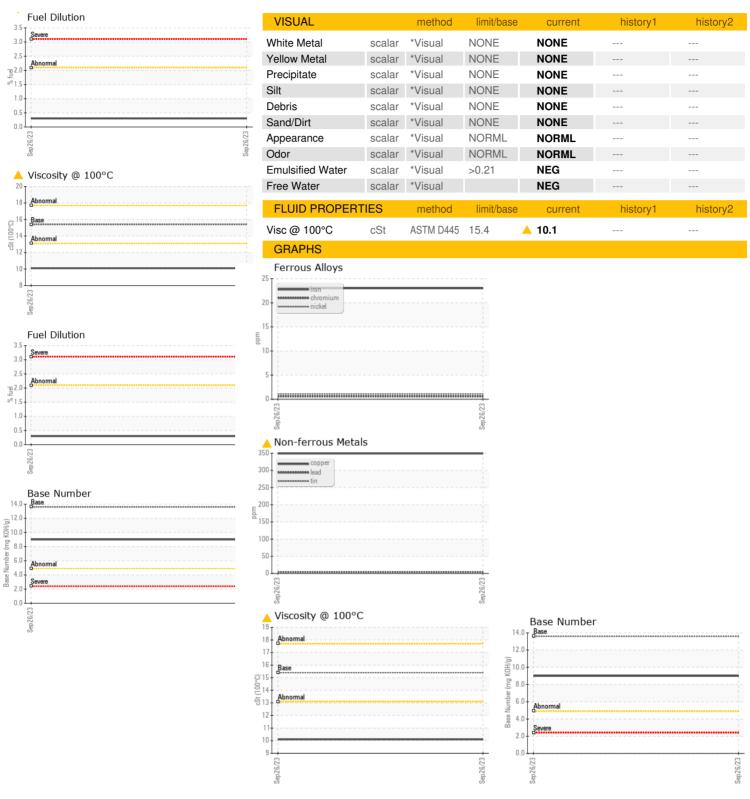
Fluid Condition

The oil viscosity is lower than normal. Confirm oil type.

IO (CAL)						
0 (GAL)				Sep2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		MT0006052		
Sample Date		Client Info		26 Sep 2023		
Machine Age	hrs	Client Info		298		
Dil Age	hrs	Client Info		298		
Oil Changed		Client Info		Not Changd		
Sample Status				ABNORMAL		
CONTAMINATIO	N	method	limit/base	current	history1	history2
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>51	23		
Chromium	ppm	ASTM D5185m	>11	<1		
Nickel	ppm	ASTM D5185m	>5	1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>31	<1		
_ead	ppm	ASTM D5185m	>26	4		
Copper	ppm	ASTM D5185m	>26	4 349		
Γin	ppm	ASTM D5185m	>4	2		
/anadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		261		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		252		
Manganese	ppm	ASTM D5185m		5		
Magnesium	ppm	ASTM D5185m		841		
Calcium	ppm	ASTM D5185m		1424		
Phosphorus	ppm	ASTM D5185m		886		
Zinc	ppm	ASTM D5185m		1070		
Sulfur	ppm	ASTM D5185m		2969		
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>22	12		
Sodium	ppm	ASTM D5185m	>31	6		
Potassium	ppm	ASTM D5185m	>20	0		
-uel	%	ASTM D3524	>2.1	0.3		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3		
Nitration	Abs/cm	*ASTM D7624	>20	8.1		
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.4		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.2		
Base Number (BN)	mg KOH/g		13.6	9.0		
()	0 - 3					



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No. Lab Number Unique Number

: MT0006052 : 05967608 : 10674159

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 03 Oct 2023 Diagnosed

: 08 Oct 2023 Diagnostician : Doug Bogart

Test Package : CONST (Additional Tests: FuelDilution, 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)

MURPHY TRACTOR - CAMBRIDGE

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Contact/Location: DUSTIN DAILEY - MURCAM

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