

PROBLEM SUMMARY

Sample Rating Trend

WEAR

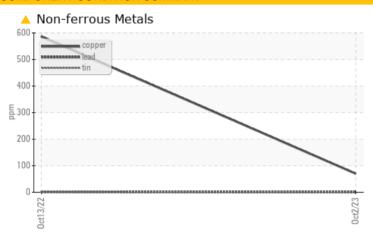
[W46854]

JOHN DEERE 624 P 1DW624PAANLZ15007

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. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS								
Sample Status	ABNORMAL							
Copper	ppm	ASTM D5185m	>26	<u>^</u> 70	▲ 586			

Customer Id: JAMASH **Sample No.:** JR0179473 Lab Number: 05968689 Test Package: CONST

To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 ihester@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
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

13 Oct 2022 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.



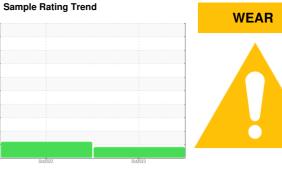


OIL ANALYSIS REPORT

[W46854] JOHN DEERE 624 P 1DW624PAANLZ15007

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. Resample at the next service interval to monitor.

Wear

The copper level has decreased, but is still abnormal.

Contamination

There is no indication of any contamination in the

Fluid Condition

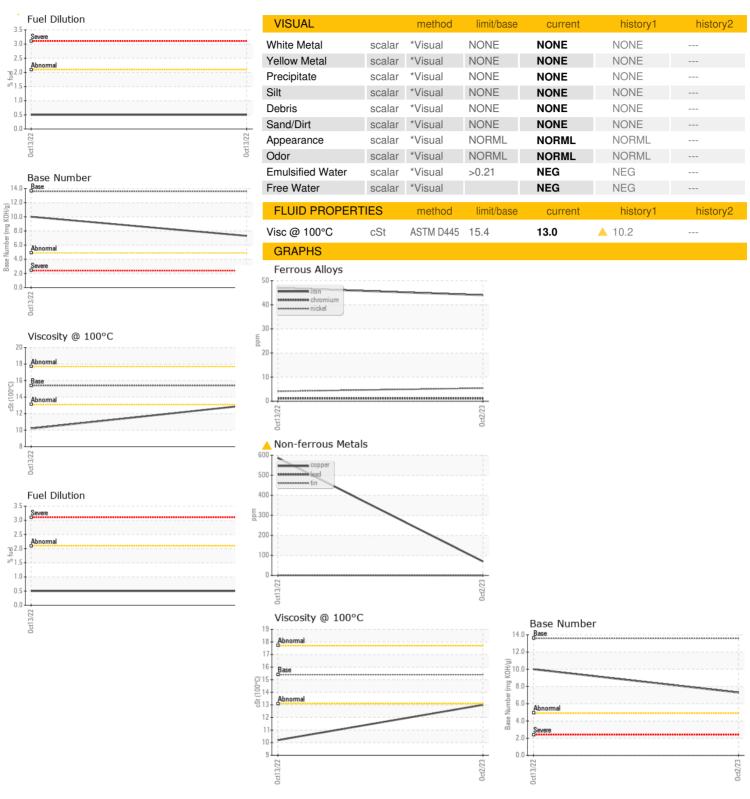
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORMATION method limit/base current history1 history2 Sample Date Client Info JR0179473 JR0147541 Sample Date Client Info 1218 460 Oil Age hrs Client Info 0 0 Oil Changed Client Info Changed Changed Sample Status Immitted Mark MarginAL ABNORMAL CONTAMINATION method Immitted MarginAL ABNORMAL Glycol WC Method NEG NEG WEAR METALS method Immitted Limit/base current history1 history2 Iron ppm ASTM 05185m >51 44 47 Chromium ppm ASTM 05185m >51 44 47 Nickel ppm ASTM 05185m >11 1 1 Aluminum ppm ASTM 05185m >3 0				Oct2022	Oct2023		
Sample Date Client Info 1218 460 Machine Age hrs Client Info 0 0 0 0 0 Oil Age hrs Client Info 0 0 0 0 0 Oil Changed Client Info Changed Changed	SAMPLE INFORMA	ATION	method	limit/base	current	history1	history2
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Sulfation Abs/.1mm *ASTM D7415 >30 22.9 23.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 17.2 17.4	Soot %	%	*ASTM D7844	>3	0.4	0.4	
FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 17.2 17.4	Nitration	Abs/cm	*ASTM D7624	>20	8.9	9.4	
Oxidation	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.9	23.2	
	FLUID DEGRADAT	TION	method	limit/base	current	history1	history2
Base Number (BN) mg KOH/g ASTM D2896 13.6 7.3 10.0	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.2	17.4	
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	7.3	10.0	

Contact/Location: DAVID ZIEG - JAMASH



OIL ANALYSIS REPORT







Report Id: JAMASH [WUSCAR] 05968689 (Generated: 10/09/2023 07:17:38) Rev: 1

Laboratory Sample No.

Lab Number **Unique Number**

: JR0179473 : 05968689 : 10675240

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 04 Oct 2023 Diagnosed : 06 Oct 2023 Diagnostician : Jonathan Hester Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN)

JRE - ASHLAND 11047 LEADBETTER RD ASHLAND, VA US 23005 Contact: DAVID ZIEG

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.

dzieg@jamesriverequipment.com T: (804)798-6001 F: (804)798-0292 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: DAVID ZIEG - JAMASH