WEAR CONTAMINATION FLUID CONDITION

NORMAL

ABNORMAL

NORMAL

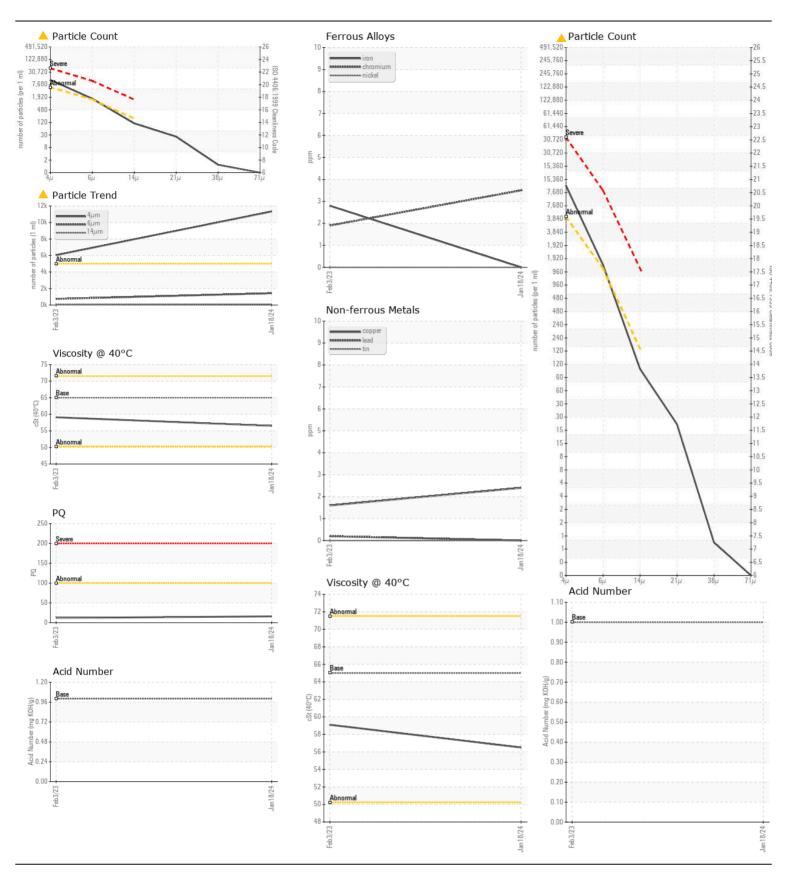


JOHN DEERE 644 P 1DW644PACMLZ10775

Component Hydraulic System Fluid

JOHN DEERE HYDRAU (--- GAL)

JOHN DEERE HYDRAU (GAL	<u>-)</u>						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TLOSIMINLADATION	Sample Number	OOM	Client Info	Littierton	JR0201000	JR0154702	
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Date		Client Info		18 Jan 2024	03 Feb 2023	
	Machine Age	hrs	Client Info		1528	1009	
	Oil Age	hrs	Client Info		1528	1009	
	Filter Age	hrs	Client Info		0	1009	
	Oil Changed		Client Info		Not Changd	Not Changd	
	Filter Changed		Client Info		N/A	Not Changd	
	Sample Status				ABNORMAL	ATTENTION	
WEAR All component wear rates are normal.	DO		ASTM D8184		40	10	
	PQ Iron	nnm	ASTM D5185m	- 20	16 0	12 3	
	Chromium	ppm	ASTM D5165III		4	2	
	Nickel	ppm	ASTM D5185m		0	0	
	Titanium	ppm	ASTM D5185m	>10	0	0	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m	>10	0	0	
	Lead	ppm	ASTM D5185m		0	<1	
	Copper	ppm	ASTM D5185m		2	2	
	Tin	ppm	ASTM D5185m		0	0	
	Vanadium	ppm	ASTM D5185m	210	0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m		2	2	
Insufficient sample was received to conduct all the routine laboratory tests. There is a high amount of silt (particulates < 14 microns in size) present in the oil.	Potassium	ppm	ASTM D5185m		0	3	
	Water		WC Method		NEG	NEG	
	Particles >4µm		ASTM D7647		<u> 11331</u>	▲ 6047	
	Particles >6µm		ASTM D7647		▲ 1425	741	
	Particles >14µm		ASTM D7647		94	47	
	Particles >21µm		ASTM D7647		22	9	
	Particles >38µm Particles >71µm		ASTM D7647 ASTM D7647		1 0	0	
	Oil Cleanliness		ISO 4406 (c)		<u> </u>	<u>△</u> 20/17/13	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water		*Visual	>0.1	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		1	2	
The condition of the oils additive package is suitable for further service.	Boron	ppm	ASTM D5185m		0	0	
	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		1	<1	
	Manganese	ppm	ASTM D5185m		<1 15	0	
	Magnesium Calcium	ppm	ASTM D5185m ASTM D5185m	97	15 101	0	
	CalciuiII	ppm				86 558	
		nnm	451M11h18hm	1.01			
	Phosphorus	ppm	ASTM D5185m		575 752		
	Phosphorus Zinc	ppm	ASTM D5185m	900	752	779	
	Phosphorus			900 1500			





Certificate L2367

Report Id: RWMGAR [WUSCAR] 06065519 (Generated: 02/05/2024 07:59:00) Rev: 1

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 06065519

: JR0201000 : 10836901

Recieved : 19 Jan 2024 Diagnosed : 02 Feb 2024

Diagnostician : Doug Bogart

Test Package : CONST (Additional Tests: PQ) 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)

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