WEAR CONTAMINATION FLUID CONDITION **ABNORMAL ABNORMAL NORMAL**

JOHN DEERE 4044M 1LV4044MCJJ104999

Component Hydraulic System

JOHN DEERE HY-GARD HYD/TRANS LOW VIS (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Number		Client Info		JR0137429		
	Sample Date		Client Info		12 Jan 2024		
	Machine Age	hrs	Client Info		263		
	Oil Age	hrs	Client Info		263		
	Filter Age	hrs	Client Info		263		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
WEAR	PQ		ASTM D8184		35		
	Iron	ppm	ASTM D5185m	>20	<u> </u>		
The iron level is abnormal. The copper level is abnormal.	Chromium	ppm	ASTM D5185m		<1		
	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m		<1		
	Aluminum	ppm	ASTM D5185m	>10	1		
	Lead	ppm	ASTM D5185m	>10	3		
	Copper	ppm	ASTM D5185m	>75	A 86		
	Tin	ppm	ASTM D5185m	>10	2		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
	0				_		
ONTAMINATION	Silicon	ppm	ASTM D5185m		7		
There is a high amount of silt (particulates < 14 microns in size) present in the oil.	Potassium	ppm	ASTM D5185m		0		
	Water			>0.1	NEG		
	Particles >4µm		ASTM D7647		<u> 157571</u>		
	Particles >6µm		ASTM D7647		<u>27143</u>		
	Particles >14µm		ASTM D7647		27		
	Particles >21µm		ASTM D7647	>40	3 0		
	Particles >38µm Particles >71µm		ASTM D7647 ASTM D7647		0		
	Oil Cleanliness		ISO 4406 (c)		<u>4</u> 24/22/12		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water			>0.1	NEG		
LUID CONDITION	Sodium	ppm	ASTM D5185m		6		
	Boron	ppm	ASTM D5185m		6		
The AN level is acceptable for this fluid. The condition of the oils additive package is suitable for further service.	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		0		
	Manganese	ppm	ASTM D5185m		3		
	Magnesium	ppm	ASTM D5185m		81		
	Calcium	ppm	ASTM D5185m		3294		
	Phosphorus	ppm	ASTM D5185m		1021		
	Zinc	ppm	ASTM D5185m		1229		
	Sulfur	ppm	ASTM D5185m		3774		
	Acid Number (AN)	mg KOH/g	ASTM D8045		1.16		
	Visc @ 40°C	cSt	ASTM D445	32	29.0		





Certificate L2367

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

: JR0137429 : 06060952 : 10832334

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 16 Jan 2024 Diagnosed

: 17 Jan 2024 Diagnostician : Jonathan Hester Test Package : MOBCE (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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