WEAR CONTAMINATION FLUID CONDITION

SEVERE SEVERE ATTENTION



JOHN DEERE 244J LU244JX722841

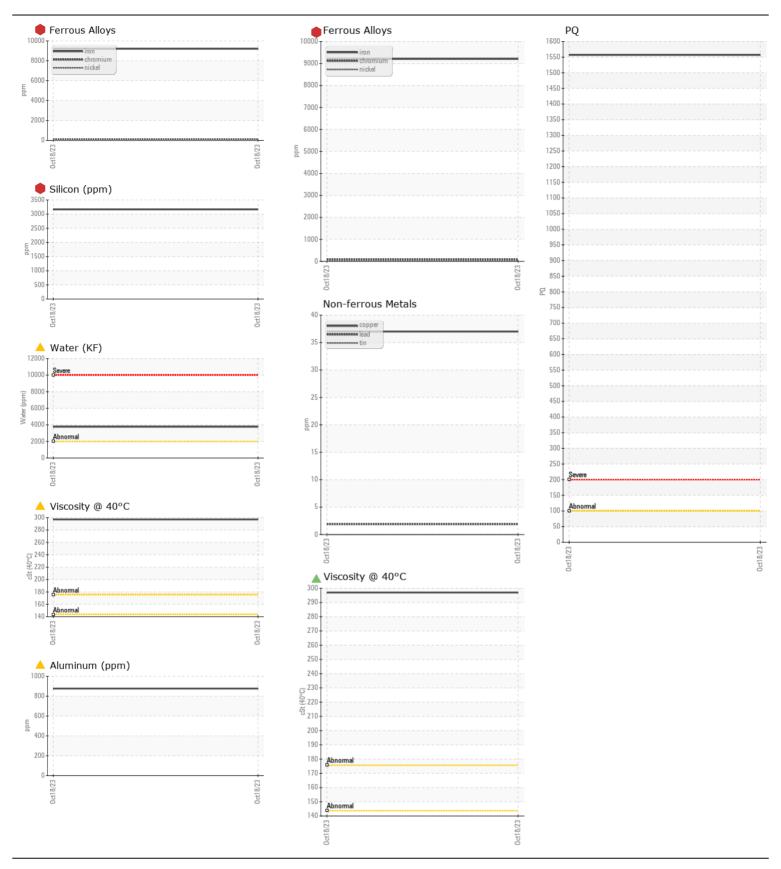
Component Rear Right 6WD Hub

Rear Right 6WD Hub JOHN DEERE GL-5 80W90 (0	GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.	Sample Number		Client Info		JR0176725		
	Sample Date		Client Info		18 Oct 2023		
	Machine Age	hrs	Client Info		12906		
	Oil Age	hrs	Client Info		12906		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		N/A		
	Sample Status				SEVERE		
WEAR	PQ		ASTM D8184		1557		
Gear wear is indicated.	Iron	ppm	ASTM D5185m	>200	9207		
	Chromium	ppm	ASTM D5185m		7 7		
	Nickel	ppm	ASTM D5185m	>10	19		
	Titanium	ppm	ASTM D5185m		39		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		876		
	Lead	ppm	ASTM D5185m		2		
	Copper	ppm	ASTM D5185m		37		
	Tin	ppm	ASTM D5185m		0		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	MODER		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m		3165		
There is a light concentration of water present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.	Potassium	ppm	ASTM D5185m	>20	359		
	Water	%	ASTM D6304	>0.2	△ 0.377		
	ppm Water	ppm	ASTM D6304	>2000	<u> </u>		
	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	scalar	*Visual	>0.2	0.2%		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		336		
The oil viscosity is higher than normal. The oil is no longer serviceable due to the presence of contaminants.	Boron	ppm	ASTM D5185m		12		
	Barium	ppm	ASTM D5185m		7		
	Molybdenum	ppm	ASTM D5185m		6		
	Manganese	ppm	ASTM D5185m		72		
	Magnesium	ppm	ASTM D5185m		74		
	Calcium	ppm	ASTM D5185m		183		
	Phosphorus	ppm	ASTM D5185m		2096		
	Zinc	ppm	ASTM D5185m		80		
	Sulfur	ppm	ASTM D5185m		32915		
	1/1 0 1000	0.	10T11P11F		I A		

Visc @ 40°C

ASTM D445

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Laboratory Sample No. Unique Number : 10708448

Lab Number : 05985786

: JR0176725

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

: 20 Oct 2023 **Tested** Diagnosed

: 24 Oct 2023

: 24 Oct 2023 - Don Baldridge

GARNER - MARTIN MARIETTA 1111 E GARNER RD GARNER, NC

US 27529 Contact: JASON GILMORE

jason.gilmore@martinmarietta.com T:

Test Package: CONST (Additional Tests: KF, 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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