WEAR CONTAMINATION FLUID CONDITION

NORMAL

ABNORMAL

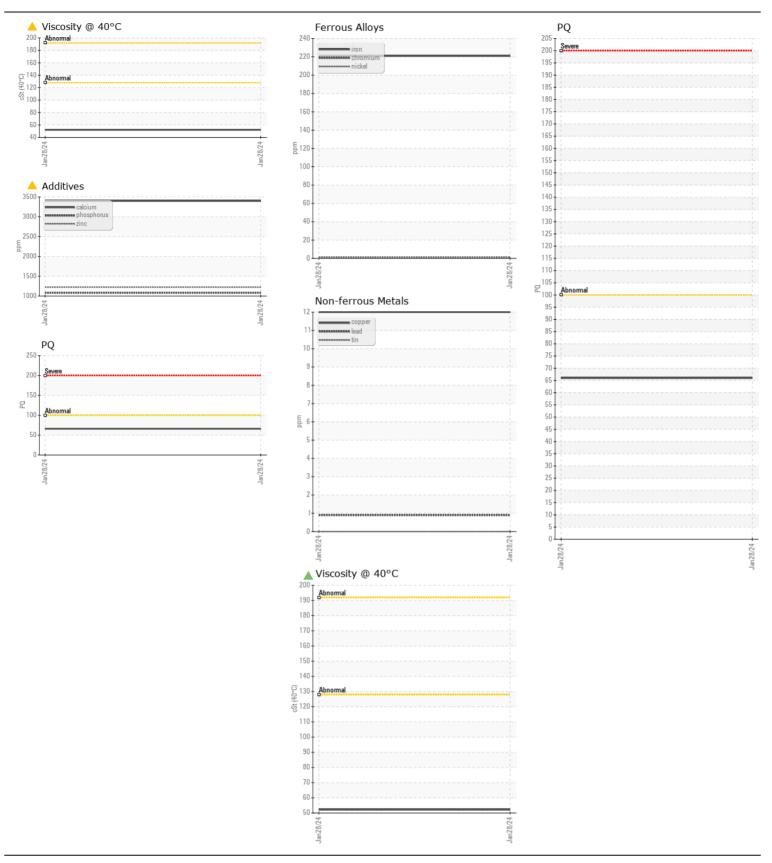
ATTENTION



JOHN DEERE 544G 1YN544GAPPLA00193

Component Front Differential

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		JR0197588		
	Sample Date		Client Info		28 Jan 2024		
	Machine Age	hrs	Client Info		544		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		N/A		
	Sample Status				ABNORMAL		
WEAR	DO.		ACTM DO104				
WEAR	PQ		ASTM D8184	F00	66		
All component wear rates are normal.	Iron	ppm	ASTM D5185m		221		
	Chromium Nickel	ppm	ASTM D5185m ASTM D5185m		<1 <1		
	Titanium	ppm	ASTM D5185m	>10			
	Silver	ppm	ASTM D5185m		<1 0		
	Aluminum	ppm	ASTM D5185m	>25	2		
	Lead	ppm	ASTM D5185m		<1		
	Copper	ppm	ASTM D5185m		12		
	Tin	ppm	ASTM D5185m		0		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	0.11						
CONTAMINATION Moderate concentration of visible dirt/debris present in the oil.	Silicon	ppm	ASTM D5185m		15		
	Potassium	ppm	ASTM D5185m		2		
	Water	cooler	WC Method *Visual	>.2 NONE	NEG NONE		
	Debris	scalar	*Visual	NONE	▲ MODER		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>.2	NEG		
THE CONDITION							
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0		
The oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.	Boron	ppm	ASTM D5185m		5		
	Barium	ppm	ASTM D5185m		1		
	Monganage	ppm	ASTM D5185m		0		
	Manganese	ppm	ASTM D5185m		2		
	Magnesium	ppm	ASTM D5185m		▲ 102 ▲ 2200		
	Calcium	ppm	ASTM D5185m		▲ 3399 ▲ 1082		
	Phosphorus	ppm	ASTM D5185m ASTM D5185m		▲ 1082 ▲ 1224		
					- 1//4		
	Zinc Sulfur	ppm	ASTM D5185m		▲ 5015		





Certificate L2367

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

: JR0197588 : 06075069 : 10857160

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

Diagnostician : Don Baldridge Test Package : CONST (Additional Tests: PQ)

: 30 Jan 2024 : 01 Feb 2024

JRE - GARNER 4161 AUBURN CHURCH RD GARNER, NC

US 27529

Contact: RALEIGH SHOP sean.betts@jamesriverequipment.com;catherine.anastasio@wearcheck.com

T: (919)614-2260 F: (919)779-5432

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)