WEAR CONTAMINATION **FLUID CONDITION**

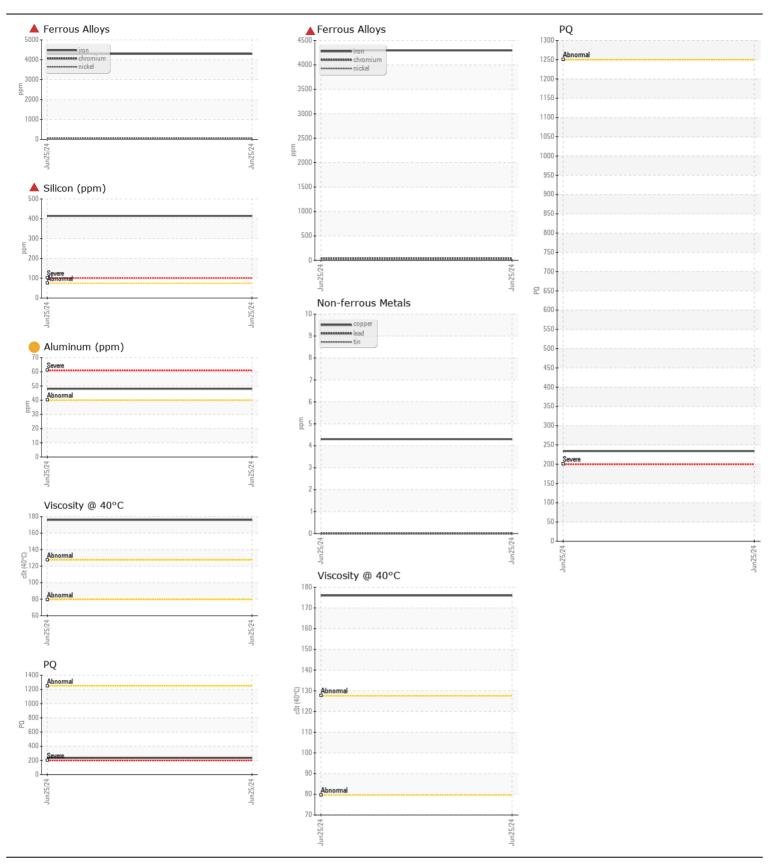
SEVERE SEVERE NORMAL

Machine Id

JOHN DEERE 331G 1T0331GKCLF383841

Left Final Drive

Test	{not provided} (GAL)							
Sample Number Client Info JR0221970	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	Historv1	Historv2
No content of the same and 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.	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	Sample Number					-	
Machine Age hrs Client Info 1068		Sample Date		Client Info		25 Jun 2024		
Filter Age		Machine Age	hrs	Client Info		1068		
Oil Changed Client Info Changed Client Info N/A		Oil Age	hrs	Client Info		1068		
Filter Changed Sample Status		Filter Age	hrs	Client Info		0		
New		Oil Changed		Client Info		Changed		
PQ		Filter Changed		Client Info		N/A		
Iron		Sample Status				SEVERE		
Iron	WEAR	PO		ASTM D8184	>1250	234		
Chromium ppm ASTM D5185m >9 ▲ 42			nnm					
Nickel ppm ASTM D5185m >10								
Titanium ppm ASTM D5185m 5 Silver ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m >40 48 Lead ppm ASTM D5185m >15 0 Copper ppm ASTM D5185m >15 0 Copper ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m >10 NONE Vanadium ppm ASTM D5185m >10 NONE Vellow Metal scalar *Visual NONE NONE Vellow Metal scalar *Visual NONE NONE Silicon ppm ASTM D5185m >20 26 Water WC Method >0.075 NEG Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML								
Silver ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m >40 48 Lead ppm ASTM D5185m >15 0 Copper ppm ASTM D5185m >40 4 Tin ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m 1 White Metal scalar *Visual NONE NONE Value NONE NONE Value NONE NONE Value NONE NONE CONTAMINATION Silicon ppm ASTM D5185m >75 ▲ 414 Value NONE NONE NONE Silicate (coarse dirt) ingress. NONE NONE Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Appearance scalar *Visual NONE NONE Appearance scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Appearance scalar *Visual NORML NORML Appearance scalar *Visual NORML NORML Emulsified Water scalar *Visual NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML					, , ,			
Aluminum ppm ASTM D5185m >40 ◆48								
Lead ppm ASTM D5185m >15 0 Copper ppm ASTM D5185m >40 4 Tin ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m >1 White Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual NONE NONE Tone Potassium ppm ASTM D5185m >75 A 414 Water WC Method >0.075 NEG Silt scalar *Visual NONE NONE Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML NORML Appearance scalar *Visual NORML NORML NORML Appearance scalar *Visual NORML NORML Emulsified Water scalar *Visual NORML NORML Emulsified Water scalar *Visual NORML NORML Tone NORM NORML Tone NORM NORM NORML Tone NORM NORM NORM NORM NORM Tone NORM NORM NORM Tone NORM NORM NORM NORM Tone NORM NORM NORM NORM NORM Tone NORM NORM NORM NORM NORM Tone NORM NORM NORM NORM NORM NORM Tone NORM		Aluminum			>40			
Copper ppm ASTM D5185m >40 4 Tin ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m 1 White Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual NONE NONE Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.		Lead		ASTM D5185m	>15	0		
Tin		Copper		ASTM D5185m	>40	4		
White Metal Scalar *Visual NONE N		Tin	ppm	ASTM D5185m	>10	0		
CONTAMINATION Silicon ppm ASTM D5185m >75 ▲ 414 Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress. Potassium ppm ASTM D5185m >20 26 Water WC Method >0.075 NEG Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NORML Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.075 NEG		Vanadium	ppm	ASTM D5185m		1		
Silicon ppm ASTM D5185m >75 ▲ 414		White Metal	scalar	*Visual	NONE	NONE		
Potassium ppm ASTM D5185m >20 26 Silt scalar *Visual NONE NONE NONE NONE NONE NONE Debris scalar *Visual NONE		Yellow Metal	scalar	*Visual	NONE	NONE		
Potassium ppm ASTM D5185m >20 26 Silt scalar *Visual NONE NONE NONE NONE NONE NONE Debris scalar *Visual NONE	CONTAMINATION	0:1:		AOTA DE405	75			
Water WC Method >0.075 NEG Silt scalar *Visual NONE NORML NOR	CONTAMINATION							
Silt scalar *Visual NONE Debris scalar *Visual NONE Sand/Dirt scalar *Visual NONE Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.075 NEG	` ,		ppm					
Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE Appearance scalar *Visual NORML NORML NORML Odor scalar *Visual NORML NORML NORML Emulsified Water scalar *Visual >0.075 NEG			cooler					
Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML NORML Emulsified Water scalar *Visual >0.075 NEG								
Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML NORML Emulsified Water scalar *Visual >0.075 NEG								
Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.075 NEG								
Emulsified Water scalar *Visual >0.075 NEG						-		
					>0.075			
FLUID CONDITION Sodium ppm ASTM D5185m >51 14	FLUID CONDITION		ppm		>51			
The oil is no longer serviceable due to the presence of contaminants. Boron ppm ASTM D5185m 45	The oil is no longer serviceable due to the presence of contaminants.							
Barium ppm ASTM D5185m 27								
Molybdenum ppm ASTM D5185m 5		•						
Manganese ppm ASTM D5185m 38		_						
Magnesium ppm ASTM D5185m 13		-						
Calcium ppm ASTM D5185m 55 Phosphorus ppm ASTM D5185m 1050								
Zinc ppm ASTM D5185m 30 Sulfur ppm ASTM D5185m 31231								
Visc @ 40°C cSt ASTM D445 176								
Report Id: RWMGAR [WUSCAR] 06223720 (Generated: 07/01/2024 14:04:06) Rev: 1	Report Id: RWMGAR [WUSCAR] 06223720 (Generated: 07/01/2024 14:04:06) Rev: 1	7,00 @ 40 0	301	. 10 1111 0 1110			mitted By: S	





Certificate L2367

Report Id: RWMGAR [WUSCAR] 06223720 (Generated: 07/01/2024 14:04:08) Rev: 1

Laboratory Sample No.

Lab Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0221970 : 06223720

Received **Tested** Unique Number : 11101917 Diagnosed

: 01 Jul 2024 : 01 Jul 2024 - Don Baldridge

: 28 Jun 2024

JRE - GARNER 4161 AUBURN CHURCH RD GARNER, NC US 27529

Contact: RALEIGH SHOP

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.

sean.betts@jamesriverequipment.com;catherine.anastasio@wearcheck.com T: (919)614-2260

F: (919)779-5432