WEAR CONTAMINATION FLUID CONDITION

ABNORMAL
ATTENTION
ATTENTION



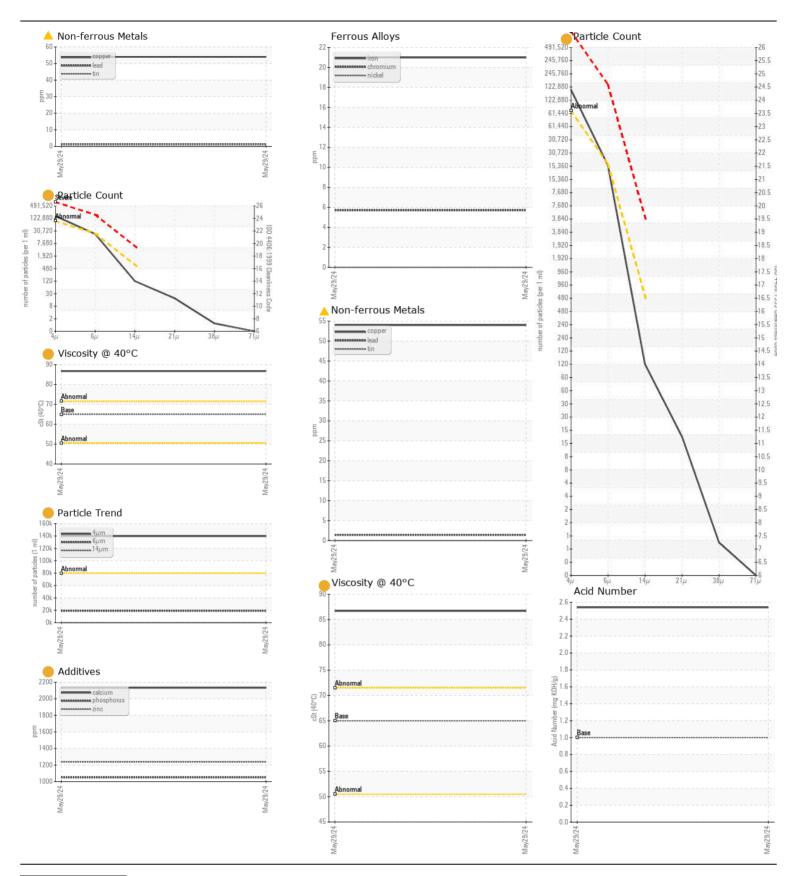
Machine Id

JOHN DEERE 650J T0650JX107808

Hydraulic System

JOHN DEERE HYDRAU (--- GAL)

No corrective action is recommended at this time. Resample at the next service interval to monitor. Sample Date Client Info Sample Date Client Info Na Na Na Na Na Na Na N	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Neghtine Age hrs Cilient Info 0 7432	•	Sample Number		Client Info		JR0212172		
Meditine Page Institute March		Sample Date		Client Info		29 May 2024		
Filter Age		Machine Age	hrs	Client Info		7432		
Oil Changed Client Info NA NA NA NA NA NA NA N		Oil Age	hrs	Client Info		0		
Filter Changed Sample Status Sample Stat		Filter Age	hrs	Client Info		0		
Name		Oil Changed		Client Info		N/A		
PQ		Filter Changed		Client Info		N/A		
The copper level is abnormal. All other component wear rates are normal. Incomplete the properties of the properties		Sample Status				ABNORMAL		
The copper level is abnormal. All other component wear rates are normal. Incomplete the properties of the properties								
Chromium ppm ASTM Dollistim ppm AST	WEAR							
Nickel	The community of a character of All off		ppm					
No. No.	· ·	Chromium	ppm					
Silver	normal.	Nickel	ppm	ASTM D5185m	>5	0		
Aluminum ppm		Titanium	ppm	ASTM D5185m		0		
Lead		Silver	ppm	ASTM D5185m		0		
Copper ppm ASTM D6185m >51 A 54		Aluminum	ppm	ASTM D5185m	>9	3		
Tin		Lead	ppm	ASTM D5185m	>28	1		
Vanadium ppm ASTM D5185m <1		Copper	ppm	ASTM D5185m	>51	4 54		
White Metal Yellow Metal scalar Visual NONE NONE NONE		Tin	ppm	ASTM D5185m	>5	0		
Vellow Metal Scalar Visual NONE NO		Vanadium	ppm	ASTM D5185m				
Silicon ppm ASTM D5185m >20 <1		White Metal	scalar	*Visual	NONE	NONE		
Potassium ppm ASTM D5185m >20 <1		Yellow Metal	scalar	*Visual	NONE	NONE		
Potassium ppm ASTM D5185m >20 <1								
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. Water WC Method >0.075 NEG	CONTAMINATION		ppm					
Particles > 4μm ASTM D7647 >600 139754			ppm					
Particles > 9µm ASTM D7647 > 0000 19155 Particles > 14µm ASTM D7647 > 0000 19155 Particles > 14µm ASTM D7647 > 000 19155 Particles > 14µm ASTM D7647 > 000 106 Particles > 14µm ASTM D7647 > 000 16 Particles > 150 4406 (c) > 2821/16 > 24/21/14 Particles > 150 4406 (c) > 2821/16 > 2821/16 > 2821/16 > 2821/16 > 2821/16 > 2821/16 > 2821/16 > 2821/16 > 2821/16 > 2821/16 > 2821/16 > 2821/16 > 2821/16 > 2821/16 > 2821/16 > 2821/16 >								
Particles >14µm ASTM D7647 >640 106 Particles >21µm ASTM D7647 >160 16 Particles >38µm ASTM D7647 >100 1 Particles >71µm ASTM D7647 >100 0 Particles >71µm ASTM D5185m NONE								
Particles >21µm								
Particles >38μm ASTM D7647 >40 1 Particles >71μm ASTM D7647 >10 0 Oil Cleanliness SO 4406 (c) ≥32½1/16 ≥4½1/14 Silt Scalar *Visual NONE NONE Debris Scalar *Visual NONE NONE NONE Sand/Dirt Scalar *Visual NORML		•		ASTM D7647	>640	106		
Particles >71 µm		·				16		
Silt Scalar Visual NONE NORML NOR		•		ASTM D7647	>40	1		
Silt Scalar *Visual NONE NORML NOR						0		
Debris Scalar *Visual NONE Sand/Dirt Scalar *Visual NONE NONE Sand/Dirt Scalar *Visual NONE NORML		Oil Cleanliness		ISO 4406 (c)	>23/21/16	24/21/14		
Sand/Dirt Scalar *Visual NONE NORML NORML			scalar	*Visual	NONE	NONE		
Appearance Scalar *Visual NORML NORM		Debris	scalar	*Visual	NONE	NONE		
Color Scalar *Visual NORML N		Sand/Dirt	scalar	*Visual		NONE		
Emulsified Water scalar *Visual >0.075 NEG		Appearance	scalar					
Sodium ppm ASTM D5185m >21 2		Odor	scalar	*Visual	NORML	NORML		
Boron ppm ASTM D5185m 97		Emulsified Water	scalar	*Visual	>0.075	NEG		
Boron ppm ASTM D5185m 97	ELUB COMPITION	O "		AOTA DELOS	04			
The oil viscosity is higher than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type. The AN level is acceptable for this fluid. Barium ppm ASTM D5185m 0 type. The AN level is acceptable for this fluid. Manganese ppm ASTM D5185m Magnesium ppm ASTM D5185m 87 2133 Phosphorus ppm ASTM D5185m 727 1051 Type. Time ppm ASTM D5185m 900 1238 Sulfur ppm ASTM D5185m 1500 4043 Acid Number (AN) mg KOH/g ASTM D8045 1.0 2.54	FLUID CONDITION				>21			
Molybdenum ppm ASTM D5185m 61	The oil viscosity is higher than normal. This plus the additive levels							
type. The AN level is acceptable for this fluid. Manganese ppm ASTM D5185m <1 Magnesium ppm ASTM D5185m <345 Calcium ppm ASTM D5185m 87 2133 Phosphorus ppm ASTM D5185m 727 1051 Zinc ppm ASTM D5185m 900 1238 Sulfur ppm ASTM D5185m 1500 4043 Acid Number (AN) mg KOH/g ASTM D8045 1.0 2.54	indicates the addition of a different brand, or type of oil. Confirm oil							
Magnesium ppm ASTM D5185m 345 Calcium ppm ASTM D5185m 87 2133 Phosphorus ppm ASTM D5185m 727 1051 Zinc ppm ASTM D5185m 900 1238 Sulfur ppm ASTM D5185m 1500 4043 Acid Number (AN) mg KOH/g ASTM D8045 1.0 2.54		•						
Calcium ppm ASTM D5185m 87 2133 Phosphorus ppm ASTM D5185m 727 1051 Zinc ppm ASTM D5185m 900 1238 Sulfur ppm ASTM D5185m 1500 4043 Acid Number (AN) mg KOH/g ASTM D8045 1.0 2.54								
Phosphorus ppm ASTM D5185m 727 1051 Zinc ppm ASTM D5185m 900 1238 Sulfur ppm ASTM D5185m 1500 4043 Acid Number (AN) mg KOH/g ASTM D8045 1.0 2.54					0=			
Zinc ppm ASTM D5185m 900 1238 Sulfur ppm ASTM D5185m 1500 4043 Acid Number (AN) mg KOH/g ASTM D8045 1.0 2.54						_		
Sulfur ppm ASTM D5185m 1500 4043 Acid Number (AN) mg KOH/g ASTM D8045 1.0 2.54			ppm					
Acid Number (AN) mg KOH/g ASTM D8045 1.0 2.54								
Visc @ 40°C CSt ASTM D445 65 86.7		. ,						
		Visc @ 40°C	cSt	ASTM D445	65	86.7		





Certificate L2367

Laboratory Sample No. Lab Number

: JR0212172 : 06196578 Unique Number : 11058701

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

: 31 May 2024 Diagnosed Test Package : CONST (Additional Tests: PQ)

: 03 Jun 2024 - Don Baldridge

: 03 Jun 2024 ASHLAND, VA Contact: DAVID ZIEG

dzieg@jamesriverequipment.com T: (804)798-6001

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) F: (804)798-0292

US 23005

JRE - ASHLAND

11047 LEADBETTER RD