WEAR CONTAMINATION FLUID CONDITION

ABNORMAL
ATTENTION

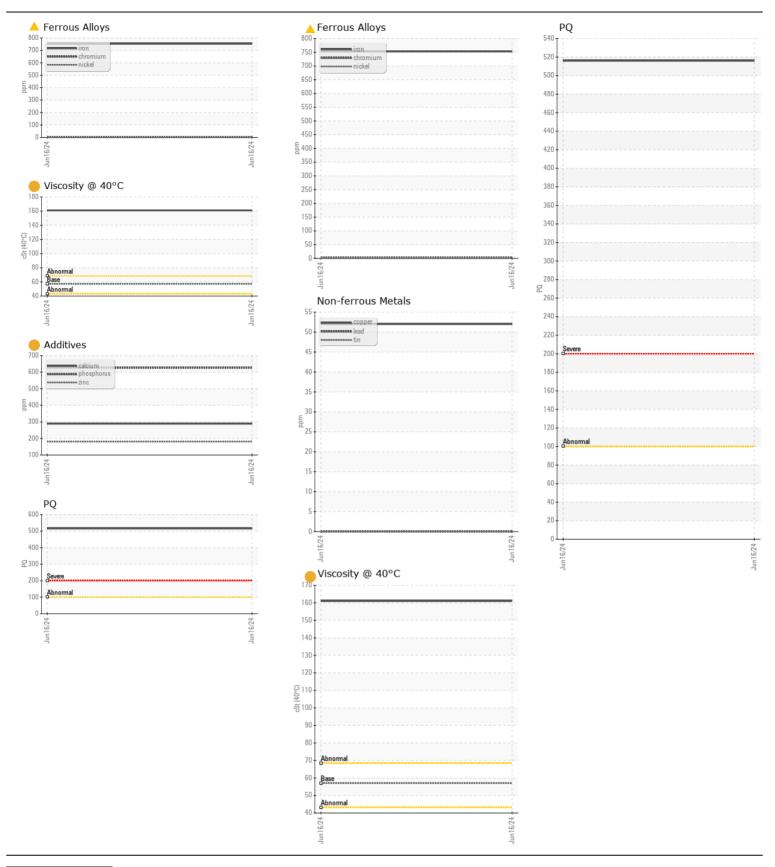


[ENERGY ERECTORS] JOHN DEERE 310SG T0310SG960771

Front Differential

JOHN DEERE HY-GARD HYD/TRANS (--- QTS)

JOHN DEERE HY-GARD HYD/TRANS (QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		JR0218324		
	Sample Date		Client Info		16 Jun 2024		
	Machine Age	hrs	Client Info		4594		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		N/A		
	Sample Status				ABNORMAL		
WEAR	PQ		ASTM D8184		516		
Gear wear is indicated.	Iron	ppm	ASTM D5185m	>500	△ 753		
	Chromium	ppm	ASTM D5185m	>10	3		
	Nickel	ppm	ASTM D5185m	>10	0		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	>25	2		
	Lead	ppm	ASTM D5185m	>25	0		
	Copper	ppm	ASTM D5185m	>100	52		
	Tin	ppm	ASTM D5185m	>10	0		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>75	17		
Moderate concentration of visible dirt/debris present in the oil.	Potassium	ppm	ASTM D5185m	>20	<1		
	Water		WC Method	>.2	NEG		
	Silt	scalar	*Visual	NONE	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		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2		
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.	Boron	ppm	ASTM D5185m	6	5		
	Barium	ppm	ASTM D5185m	0	<1		
	Molybdenum	ppm	ASTM D5185m	0	48		
	Manganese	ppm	ASTM D5185m		9		
	Magnesium	ppm	ASTM D5185m	145	3		
	Calcium	ppm	ASTM D5185m		289		
	Phosphorus	ppm	ASTM D5185m		626		
	Zinc	ppm	ASTM D5185m	1640	<u> </u>		
	Sulfur	ppm	ASTM D5185m		<u> </u>		
Depart Id. JAMMAN [MI] ICCAD] 00010050 /Conserted: 00(10/0004 15:40:10) Devis 1	Visc @ 40°C	cSt	ASTM D445	57.0	161		





Certificate L2367

Laboratory Sample No.

: JR0218324 Lab Number : 06210950 Unique Number : 11083814

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

Tested Diagnosed Test Package : CONST (Additional Tests: PQ)

Received : 14 Jun 2024 : 18 Jun 2024

: 18 Jun 2024 - Sean Felton

JRE - MANASSAS PARK 9107 OWENS DRIVE MANASSAS PARK, VA US 20111

Contact: DON VEST dvest@jamesriverequipment.com T: (703)631-8500

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.

F: (703)631-4715 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) Contact/Location: DON VEST - JAMMAN