WEAR CONTAMINATION FLUID CONDITION

NORMAL ABNORMAL NORMAL



[ENERGY ERECTORS] JOHN DEERE 310SG T0310SG959732

Transmission

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		JR0218331		
	Sample Date		Client Info		16 Jun 2024		
	Machine Age	hrs	Client Info		3337		
	Oil Age	hrs	Client Info		3337		
	Filter Age	hrs	Client Info		3337		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
WEAR	PQ		ASTM D8184	>100	28		
All component wear rates are normal.	Iron	ppm	ASTM D5185m	>61	34		
	Chromium	ppm	ASTM D5185m	>10	0		
	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m		<1		
	Aluminum	ppm	ASTM D5185m	>20	2		
	Lead	ppm	ASTM D5185m	>9	8		
	Copper	ppm	ASTM D5185m	>100	95		
	Tin	ppm	ASTM D5185m	>3	1		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION Moderate concentration of visible dirt/debris present in the fluid.	Silicon	ppm	ASTM D5185m	>21	3		
	Potassium	ppm	ASTM D5185m	>20	0		
	Water		WC Method	>0.075	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	>0.075	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>30	2		
The condition of the fluid is acceptable for the time in service.	Boron	ppm	ASTM D5185m	6	3		
	Barium	ppm	ASTM D5185m	0	0		
	Molybdenum	ppm	ASTM D5185m	0	0		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m	145	83		
	Calcium	ppm	ASTM D5185m	3570	2904		
	Phosphorus	ppm	ASTM D5185m	1290	858		
	Zinc	ppm	ASTM D5185m	1640	1090		
	Sulfur	ppm	ASTM D5185m		3659		
Papart Id: JAMMAN [MI] ICCAPI 06210022 (Caparated: 06/19/2024 15:00:24) Pays 1	Visc @ 40°C	cSt	ASTM D445	57.0	43.3	DON VEST	





Certificate L2367

Laboratory Sample No.

Lab Number : 06210922 Unique Number : 11083786

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0218331

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

: 14 Jun 2024

: 18 Jun 2024 : 18 Jun 2024 - Sean Felton

US 20111 Contact: DON VEST dvest@jamesriverequipment.com

JRE - MANASSAS PARK

9107 OWENS DRIVE

MANASSAS PARK, VA

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. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (703)631-4715