WEAR CONTAMINATION FLUID CONDITION

ATTENTION

ABNORMAL

NORMAL

BLACKBURN LOGGING [A35658]

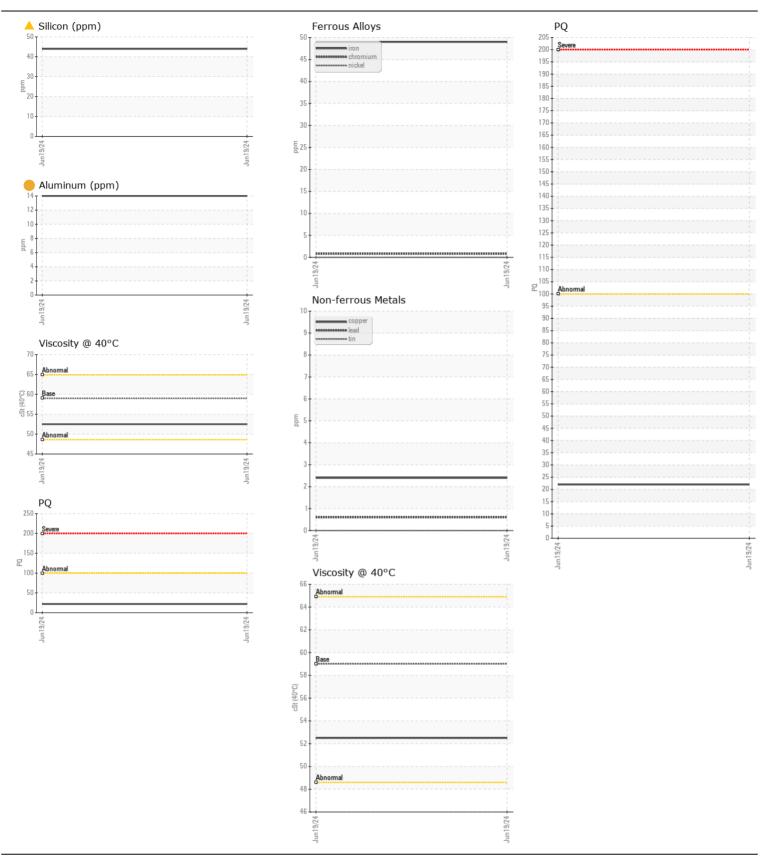
JOHN DEERE 643L II 1DW643LBKPL717978

Transfer Gearbox

JOHN DEERE HY-GARD HYDRAULIC/RANSMISSION (2 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. (Customer Sample Comment: A35658)	Sample Number		Client Info		WE0007626		
	Sample Date		Client Info		19 Jun 2024		
	Machine Age	hrs	Client Info		535		
	Oil Age	hrs	Client Info		535		
	Filter Age	hrs	Client Info		535		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		None		
	Sample Status				ABNORMAL		
WEAR							
WEAR	PQ		ASTM D8184		22		
All component wear rates are normal.	Iron	ppm	ASTM D5185m		49		
	Chromium	ppm	ASTM D5185m		<1		
	Nickel	ppm	ASTM D5185m	>10	0		
	Titanium	ppm	ASTM D5185m		7		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		<u> </u>		
	Lead	ppm	ASTM D5185m		<1		
	Copper	ppm	ASTM D5185m		2		
	Tin	ppm	ASTM D5185m		0		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTABINATION							
CONTAMINATION	Silicon	ppm	ASTM D5185m		<u>44</u>		
Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress.	Potassium	ppm	ASTM D5185m		6		
	Water		WC Method	>0.2	NEG		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.2	NEG		
	Sodium	ppm	ASTM D5185m		10		
FI LIID CONDITION		ρρ	710111120100111		.0		
FLUID CONDITION		nnm	ASTM D5185m		2		
	Boron	ppm	ASTM D5185m ASTM D5185m		2 10		
	Boron Barium	ppm	ASTM D5185m		10		
	Boron Barium Molybdenum	ppm	ASTM D5185m ASTM D5185m		10 <1		
	Boron Barium Molybdenum Manganese	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		10 <1 3	 	
	Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		10 <1 3 105		
	Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		10 <1 3 105 3777	 	
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		10 <1 3 105 3777 1117	 	
FLUID CONDITION The condition of the oil is acceptable for the time in service.	Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		10 <1 3 105 3777	 	

Submitted By: BOBBY LUCKY





Certificate L2367

Laboratory Sample No.

: WE0007626 Lab Number : 06217083

Unique Number : 11089947

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 21 Jun 2024 **Tested** Diagnosed

: 24 Jun 2024

: 24 Jun 2024 - Sean Felton

WARRIOR TRACTOR AND EQUIPMENT - HUNTSVILLE 25135 ONE AVIATION WAY SW MADISON, AL

US 35756 Contact: BOBBY LUCKY warriorparts033@gmail.com

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