

## Machine Id JOHN DEERE 453 Component Left Final Drive Fluid TRC RED-TAC 80W90 (3 QTS)

## RECOMMENDATION

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.

WEAR	

All component wear rates are normal.

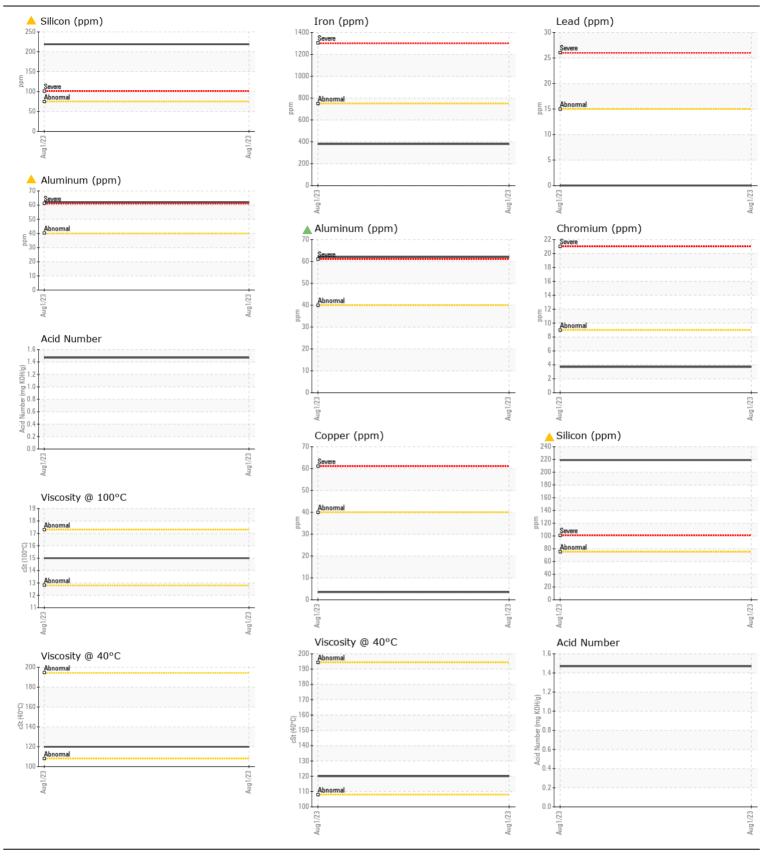
## **CONTAMINATION**

Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress.

## FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR05934478		
Sample Date		Client Info		01 Aug 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		802		
Filter Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Filter Changed		Client Info		N/A		
Sample Status				ABNORMAL		
Iron	ppm	ASTM D5185m	>750	380		
Chromium	ppm	ASTM D5185m	>9	4		
Nickel	ppm	ASTM D5185m	>10	1		
Titanium	ppm	ASTM D5185m		7		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>40	<b>▲</b> 62		
Lead	ppm	ASTM D5185m	>15	0		
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		
Silioco			. 75	A 010		
Silicon	ppm	ASTM D5185m	>75	▲ 219 -7		
Potassium	ppm	ASTM D5185m	>20	7		
Water	ooslar	WC Method	>0.075	NEG		
Silt	scalar	*Visual	NONE	NONE		
Debris Sand/Dirt	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>0.075	NEG		
Sodium	ppm	ASTM D5185m	>51	7		
Boron	ppm	ASTM D5185m		271		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		117		
Manganese	ppm	ASTM D5185m		4		
Magnesium	ppm	ASTM D5185m		26		
Calcium	ppm	ASTM D5185m		25		
Phosphorus	ppm	ASTM D5185m		909		
Zinc	ppm	ASTM D5185m		505		
Sulfur	ppm	ASTM D5185m		19832		
Acid Number (AN)	mg KOH/g	ASTM D3183III		1.47		
Visc @ 40°C	cSt	ASTM D0045 ASTM D445		120		
Visc @ 40 C Visc @ 100°C	cSt	ASTM D445 ASTM D445		120		
Viscosity Index (VI)		ASTM D445 ASTM D2270				
viscosity index (VI)	Scale	ASTIVI DZZ/U		128		



**BIGHORN LOGGING CORP** Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 13820 NW MAIN ST Sample No. : TR05934478 Received : 24 Aug 2023 Lab Number : 05934478 Tested : 25 Aug 2023 BANKS, OR : 27 Aug 2023 - Don Baldridge US 97106 Unique Number : 10619749 Diagnosed Test Package : MOB 2 (Additional Tests: KV100, VI) Contact: JEFF WARREN Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-827-0711. \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: F: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: JEFF WARREN - BIGBAN

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