**WEAR** CONTAMINATION **FLUID CONDITION** 

**NORMAL ABNORMAL NORMAL** 

Machine Id

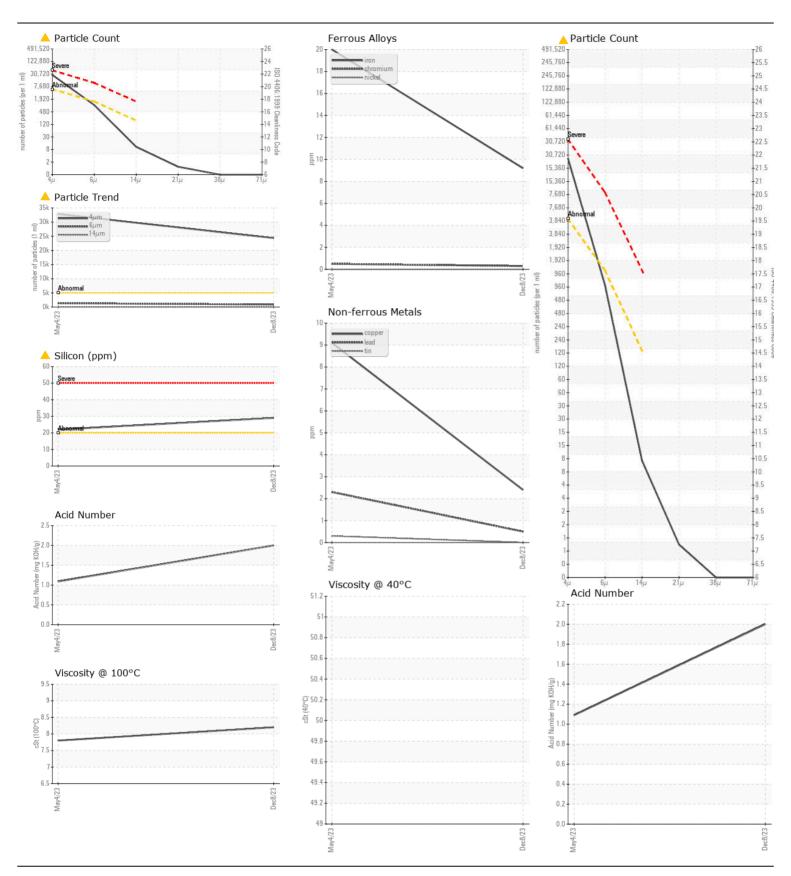
## **JOHN DEERE 4129**

**OIL ANALYSIS REPORT** 

Component Hydraulic System

TRC SPECIAL 303 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TECOMMENDATION	Sample Number	OOW	Client Info	LIIII07 (OII	TR06062602		
No corrective action is recommended at this time. Oil and filter change	Sample Date		Client Info		08 Dec 2023	04 May 2023	
at the time of sampling has been noted. Resample at the next service	Machine Age	hrs	Client Info		1968	1675	
interval to monitor.	Oil Age	hrs	Client Info		295	651	
	Filter Age	hrs	Client Info		295	651	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				ABNORMAL	ABNORMAL	
WEAD			AOTM DE CO		• • • • • • • • • • • • • • • • • • • •	00	
WEAR	Iron	ppm	ASTM D5185m		9	20	
All component wear rates are normal.	Chromium Nickel	ppm	ASTM D5185m ASTM D5185m		<1	<1 0	
7 III COMPONENT NOON TOLOGO OLO MOMBILI	Titanium	ppm	ASTM D5185m	>10	0 <1	<1	
	Silver	ppm ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m	<b>\10</b>	1	<1	
	Lead	ppm	ASTM D5185m		- <1	2	
	Copper	ppm	ASTM D5185m		2	9	
	Tin	ppm	ASTM D5185m		0	<1	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m		<u>^</u> 29	<u>^</u> 22	
There is a high amount of silt (particulates < 6 microns in size) present	Potassium	ppm	ASTM D5185m		2	<1	
in the oil. Elemental level of silicon (Si) above normal indicating ingress	Water		WC Method		NEG	NEG	
of seal material.	Particles >4µm		ASTM D7647		<u>^</u> 24340	32849	
	Particles >6µm Particles >14µm		ASTM D7647 ASTM D7647		886 9	▲ 1366 28	
	Particles >14µm		ASTM D7647		1	3	
	Particles >38µm		ASTM D7647		0	0	
	Particles >71µm		ASTM D7647	>3	0	0	
	Oil Cleanliness		ISO 4406 (c)		<u>^</u> 22/17/10	<u>^</u> 22/18/12	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	
FLUID CONDITION	Sodium	nnm	ASTM D5185m		5	7	
FLUID CONDITION	Boron	ppm	ASTM D5185m		157	141	
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		<1	<1	
	Manganese	ppm	ASTM D5185m		<1	2	
	Magnesium	ppm	ASTM D5185m		22	36	
	Calcium	ppm	ASTM D5185m		5641	4739	
	Phosphorus	ppm	ASTM D5185m		1586	1455	
	Zinc	ppm	ASTM D5185m		1975	1844	
	Sulfur	ppm	ASTM D5185m		5175	6606	
	Acid Number (AN)		ASTM D8045		2.00	1.09	
	Visc @ 40°C	cSt	ASTM D445		50.1		
	Visc @ 100°C	cSt	ASTM D445		8.2	7.8	
	Viscosity Index (VI)	Scale	ASTM D2270		136		





Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** 

: TR06062602 : 06062602

: 10833984

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 17 Jan 2024 : 19 Jan 2024 Diagnosed Diagnostician : Jonathan Hester

Test Package : MOB 2 ( Additional Tests: KV100, VI )

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

RANDALL COUNTY ROAD DEPT.

301 WEST HIGHWAY 60 CANYON, TX US 79015

Contact: MIKE LEWIS

T:

F: