WEAR CONTAMINATION FLUID CONDITION

NORMAL
ABNORMAL
ATTENTION



Machine Id **JOHN DEERE 250-D OFF RDTK 40202 (S/N 606178)**

Component Center Differential

GEAR OIL SAE 80W90 (20 QT	S)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check for the source of water entry. Resample at the next service interval to monitor.	Sample Number		Client Info		WC0950643	WC0846414	WC0756304
	Sample Date		Client Info		16 Jul 2024	26 Oct 2023	21 Dec 2022
	Machine Age	hrs	Client Info		14306	13887	13396
	Oil Age	hrs	Client Info		500	2000	0
	Filter Age	hrs	Client Info		500	2000	0
	Oil Changed		Client Info		Not Changd	Changed	Not Changd
	Filter Changed		Client Info		Not Changd	Changed	Not Changd
	Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m	>500	151	450	306
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>10	1	4	3
	Nickel	ppm	ASTM D5185m	>10	<1	2	2
	Titanium	ppm	ASTM D5185m		0	<1	<1
	Silver	ppm	ASTM D5185m		0	<1	0
	Aluminum	ppm	ASTM D5185m	>25	2	5	6
	Lead	ppm	ASTM D5185m	>25	1	1	2
	Copper	ppm	ASTM D5185m	>100	38	59	40
	Tin	ppm	ASTM D5185m	>10	0	<1	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION Appearance is milky. There is a moderate concentration of water present in the oil.	Silicon	ppm	ASTM D5185m	>75	6	10	8
	Potassium	ppm	ASTM D5185m	>20	1	2	0
	Water	%	ASTM D6304	>.2	△ 0.557	▲ 0.877	△ 0.516
	ppm Water	ppm	ASTM D6304	>2000	<u></u> 5570	▲ 8770	<u></u> 5160
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	MILKY	NORML	HAZY
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>.2	4 0.2%	△ 0.2%	0.2%
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>170	0	4	3
The oil viscosity is lower 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	400	72	91	58
	Barium	ppm	ASTM D5185m		0	<1	0
	Molybdenum	ppm	ASTM D5185m	12	20	64	30
	Manganese	ppm	ASTM D5185m		2	6	4
	Magnesium	ppm	ASTM D5185m	12	62	28	16
	Calcium	ppm	ASTM D5185m	150	2078	72	90
	Phosphorus	ppm	ASTM D5185m	1650	1290	1778	1774
	Zinc	ppm	ASTM D5185m	125	784	117	92
	0.46		AOTH DELOE	00500		10050	04000

Sulfur

Visc @ 40°C

cSt

8771

73.5

18950

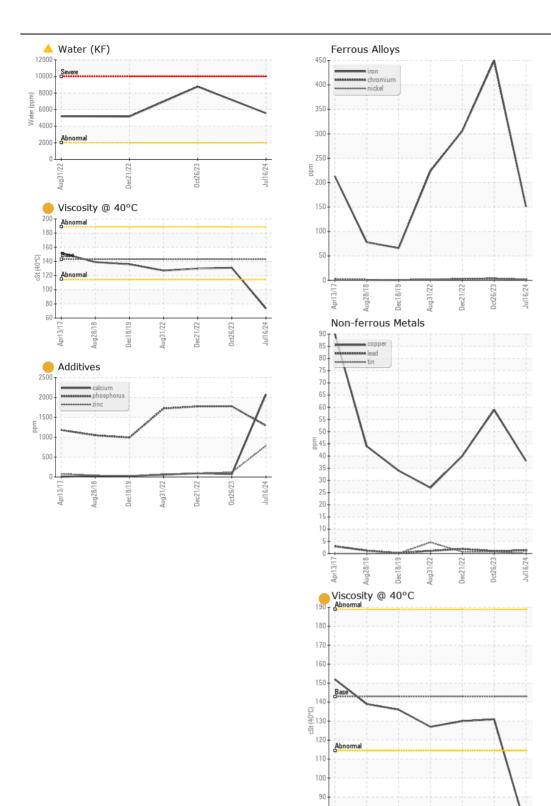
131

ppm ASTM D5185m 22500

ASTM D445 143

130

21028







Certificate L2367

Laboratory Sample No.

Lab Number : 06240719 Unique Number: 11129553

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0950643

Received **Tested**

: 19 Jul 2024

Dec21/22

: 20 Jul 2024 - Don Baldridge Diagnosed Test Package : CONST (Additional Tests: KF)

: 18 Jul 2024

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.

Contact: SCOTT SULLIVAN ssullivan@sullivaneastern.com T: (919)484-8993

SULLIVAN EASTERN INC

2860 C SLATER RD

MORRISVILLE, NC

F: (919)484-2136

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

US 27560