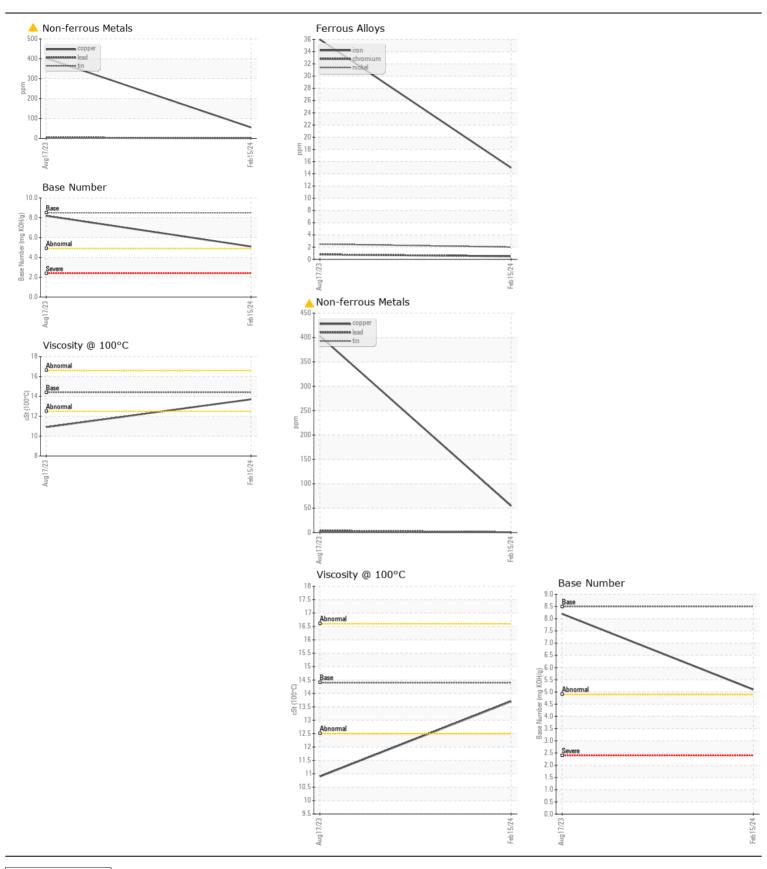
WEAR CONTAMINATION **FLUID CONDITION** **ABNORMAL** NORMAL **NORMAL**

Machine Id

JOHN DEERE DZR-36

Component Diesel Engine								
DIESEL ENGINE OIL SAE 40 (-	GAL)							
RECOMMENDATION		Test	UOM	Method	Limit/Abn	Current	History1	History2
		Sample Number		Client Info		CL0005173	CL0004610	
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.		Sample Date		Client Info		15 Feb 2024	17 Aug 2023	
	Resample at the next	Machine Age	hrs	Client Info		1150	532	
		Oil Age	hrs	Client Info		618	0	
		Filter Age	hrs	Client Info		0	0	
		Oil Changed	0	Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed		
		Sample Status		Chorte inio		ABNORMAL	ABNORMAL	
WEAR		Iron	ppm	ASTM D5185m	>51	15	36	
WEAT		Chromium	ppm	ASTM D5185m		<1	<1	
The copper level has decreased, but is still abnormal. A component wear rates are normal.	ormal. All other	Nickel	ppm	ASTM D5185m		2	2	
		Titanium	ppm	ASTM D5185m		0	- <1	
		Silver	ppm	ASTM D5185m	>3	0	0	
		Aluminum	ppm	ASTM D5185m		2	3	
		Lead	ppm	ASTM D5185m		- <1	4	
		Copper	ppm	ASTM D5185m		<u> </u>	<u>403</u>	
		Tin	ppm	ASTM D5185m		1	1	
		Vanadium	ppm	ASTM D5185m		<1	<1	
		White Metal	scalar	*Visual	NONE	NONE	NONE	
		Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
							NONE	
CONTAMINATION		Silicon	ppm	ASTM D5185m	>22	4	10	
		Potassium	ppm	ASTM D5185m	>20	0	2	
There is no indication of any contamination in the oil.		Fuel		WC Method	>2.1	<1.0	1.0	
	Water		WC Method	>0.21	NEG	NEG		
		Glycol		WC Method		NEG	NEG	
		Soot %	%	*ASTM D7844	>3	0.3	0.5	
		Nitration	Abs/cm	*ASTM D7624	>20	8.4	9.5	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.5	22.6		
		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	>0.21	NEG	NEG		
EL LUD CONDITION				AOTH DE LOS	040	•	_	
FLUID CONDITION		Sodium	ppm	ASTM D5185m		2	5	
The BN result indicates that there is suitable alkalinity remoil. The condition of the oil is suitable for further service.	alinity remaining in the	Boron	ppm	ASTM D5185m	250	25	148	
	,	Barium	ppm	ASTM D5185m		0	0	
		Molybdenum	ppm	ASTM D5185m	100	80	262	
		Manganese	ppm	ASTM D5185m	450	<1	4	
		Magnesium	ppm	ASTM D5185m		187	913	
		Calcium	ppm		3000	1828	1549	
		Phosphorus	ppm	ASTM D5185m		911	918	
		Zinc	ppm	ASTM D5185m		1149	1155	
		Sulfur	ppm	ASTM D5185m		2934	3183	
		Oxidation	Abs/.1mm	*ASTM D7414		14.0	18.2	
		Base Number (BN)	mg KOH/g	ASTM D2896		5.1	8.2	
		Visc @ 100°C	cSt	ASTM D445	14.4	13.7	10.9	





Laboratory Sample No.

: CL0005173 Lab Number : 06097377 Unique Number : 10890230

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

Tested Diagnosed Test Package : CONST (Additional Tests: TBN)

: 22 Feb 2024 : 23 Feb 2024

: 24 Feb 2024 - Don Baldridge

PEDULLA 146 MCLELLAND MOORESVILLE, NC US 28115 Contact: LARRY

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: