WEAR CONTAMINATION FLUID CONDITION

SEVERE

ABNORMAL

NORMAL

Machine Id

## **JOHN DEERE 30212**

Right Final Drive

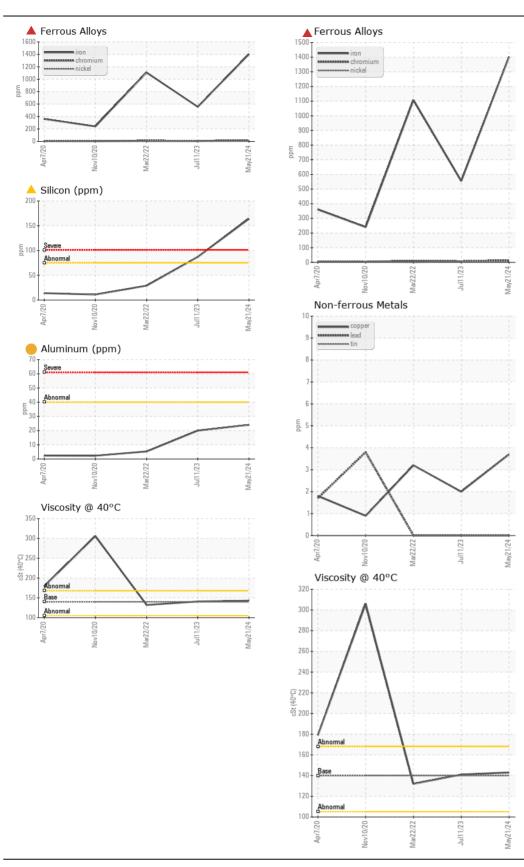
CHEVRON DELO GEAR ESI OIL 80W90 ( QT	S)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check all areas where dirt can enter the system. Oil and filter change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.	Sample Number		Client Info		WC0924418	WC0822709	WC0639414
	Sample Date		Client Info		21 May 2024	11 Jul 2023	22 Mar 2022
	Machine Age	hrs	Client Info		3801	3076	2165
	Oil Age	hrs	Client Info		750	1000	629
	Filter Age	hrs	Client Info		750	1000	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	N/A
	Sample Status				SEVERE	ABNORMAL	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m	>750	<b>1402</b>	555	<u></u> 1108
Gear wear is indicated.	Chromium	ppm	ASTM D5185m	>9	<u> </u>	7	<u> </u>
	Nickel	ppm	ASTM D5185m	>10	3	2	0
	Titanium	ppm	ASTM D5185m		2	2	<1
	Silver	ppm	ASTM D5185m		<1	0	0
	Aluminum	ppm	ASTM D5185m	>40	<u>24</u>	<b>2</b> 0	5
	Lead	ppm	ASTM D5185m	>15	0	0	0
	Copper	ppm	ASTM D5185m	>40	4	2	3
	Tin	ppm	ASTM D5185m	>10	0	0	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	MODER	MODER	MODER
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION  Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress.	Silicon	ppm	ASTM D5185m	>75	<u> </u>	<b>▲</b> 87	29
	Potassium	ppm	ASTM D5185m	>20	<1	5	4
	Water		WC Method	>0.075	NEG	NEG	NEG
	Silt	scalar	*Visual	NONE	MODER	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.075	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>51	15	11	0
The oil is no longer serviceable as a result of the abnormal and/or severe wear.	Boron	ppm	ASTM D5185m	15	228	245	140
	Barium	ppm	ASTM D5185m	0	1	0	0
	Molybdenum	ppm	ASTM D5185m	0	3	<1	4
	Manganese	ppm	ASTM D5185m		15	7	10
	Magnesium	ppm	ASTM D5185m		2	0	13
	Calcium	ppm	ASTM D5185m		40	36	49
	Phosphorus	ppm	ASTM D5185m		1123	1041	3274
	Zinc	ppm	ASTM D5185m		86	60	66
	Sulfur	ppm	ASTM D5185m	22000	21721	19782	17536

Visc @ 40°C

141

143

ASTM D445 140







Certificate L2367

Laboratory Sample No.

Lab Number : 06191379 Unique Number : 11048131 Test Package : CONST

: WC0924418

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 24 May 2024 **Tested** : 28 May 2024

Diagnosed : 29 May 2024 - Sean Felton **SULLIVAN EASTERN INC** 

2860 C SLATER RD MORRISVILLE, NC US 27560

Contact: SCOTT SULLIVAN ssullivan@sullivaneastern.com

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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)