



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 30212
 Component
Left Final Drive
 Fluid
CHEVRON DELO GEAR ESI OIL 80W90 (--- QTS)

RECOMMENDATION

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. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0924416	WC0822710	WC0639413
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				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

Gear wear is indicated.

Iron	ppm	ASTM D5185m	>750	▲ 1176	683	▲ 787
Chromium	ppm	ASTM D5185m	>9	▲ 14	8	6
Nickel	ppm	ASTM D5185m	>10	3	2	0
Titanium	ppm	ASTM D5185m		3	1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>40	● 33	● 14	6
Lead	ppm	ASTM D5185m	>15	0	0	4
Copper	ppm	ASTM D5185m	>40	3	2	4
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	MODER	MODER	▲ HEAVY
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

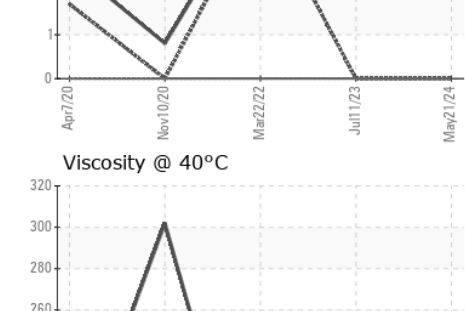
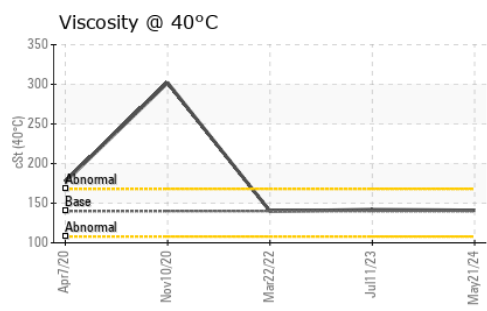
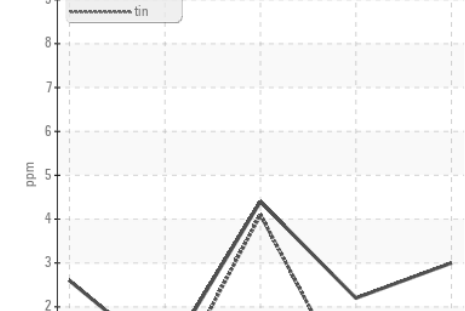
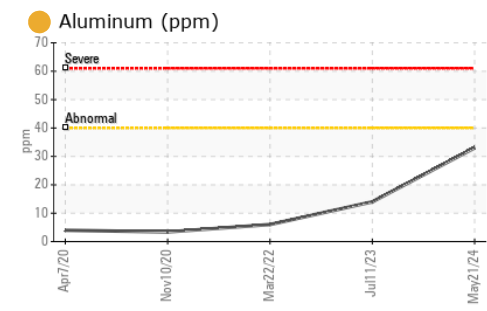
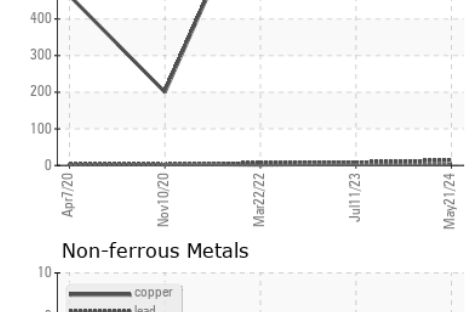
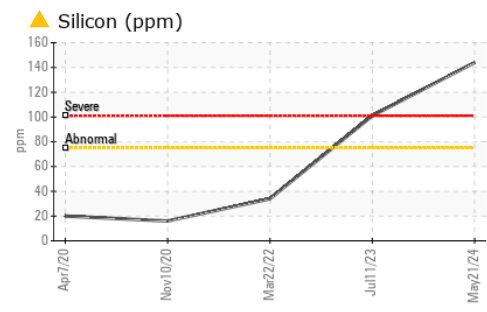
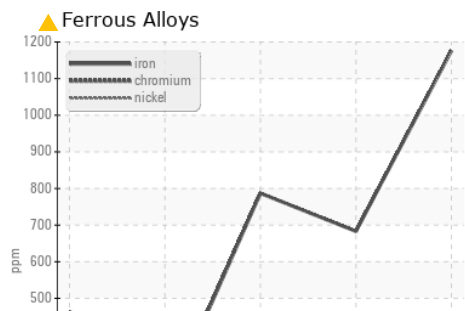
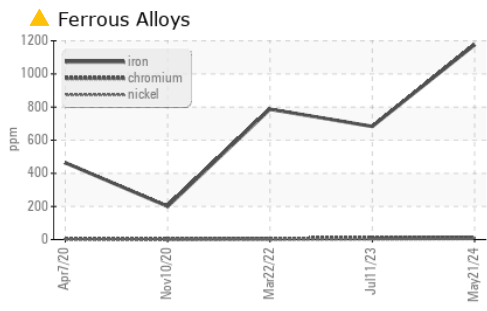
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	▲ 144	▲ 101	34
Potassium	ppm	ASTM D5185m	>20	4	3	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

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>51	18	10	0
Boron	ppm	ASTM D5185m		306	208	101
Barium	ppm	ASTM D5185m		2	0	0
Molybdenum	ppm	ASTM D5185m		3	<1	4
Manganese	ppm	ASTM D5185m		13	9	6
Magnesium	ppm	ASTM D5185m		3	0	11
Calcium	ppm	ASTM D5185m		43	36	55
Phosphorus	ppm	ASTM D5185m		1136	1031	2469
Zinc	ppm	ASTM D5185m		100	47	72
Sulfur	ppm	ASTM D5185m		22171	19159	17473
Visc @ 40°C	cSt	ASTM D445	140	141	142	140



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0924416
Lab Number : 06191380
Unique Number : 11048132
Test Package : CONST
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
 T: (919)484-8993
 F: (919)484-2136

Certificate L2367
 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)