



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[W8928]
 Machine Id
JOHN DEERE 410E 1DW410ETVLF706853
 Component
Front Differential
 Fluid
JOHN DEERE HY-GARD HYD/TRANS (16 GAL)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: W8928)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0196847	JR0197143	JR0183312
Sample Date		Client Info		23 May 2024	06 Feb 2024	13 Oct 2023
Machine Age	hrs	Client Info		6461	5971	5501
Oil Age	hrs	Client Info		490	4507	4588
Filter Age	hrs	Client Info		490	0	0
Oil Changed		Client Info		Not Changed	Changed	Not Changed
Filter Changed		Client Info		Not Changed	Changed	Not Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		15	21	16
Iron	ppm	ASTM D5185m	>500	27	39	33
Chromium	ppm	ASTM D5185m	>10	<1	<1	0
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		1	0	0
Aluminum	ppm	ASTM D5185m	>25	1	1	<1
Lead	ppm	ASTM D5185m	>25	16	30	26
Copper	ppm	ASTM D5185m	>100	13	21	22
Tin	ppm	ASTM D5185m	>10	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

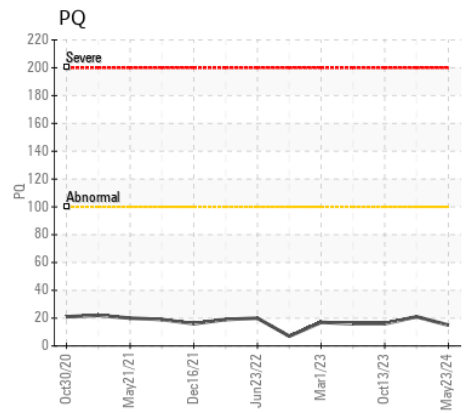
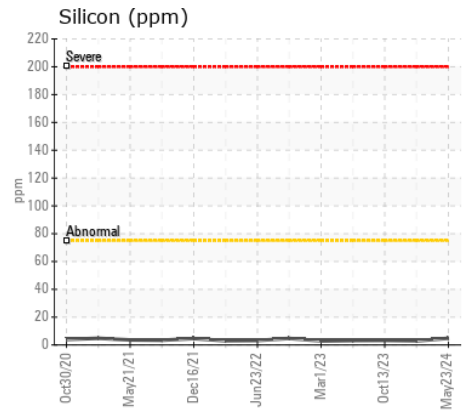
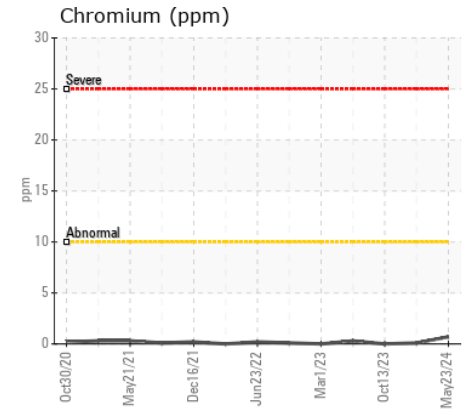
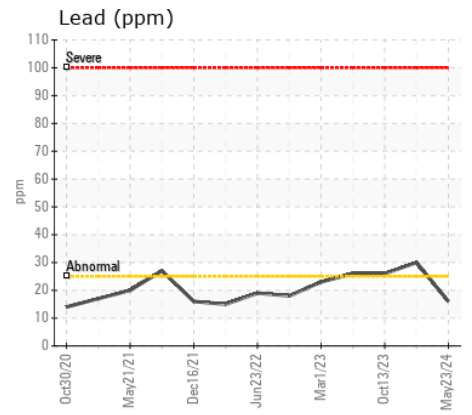
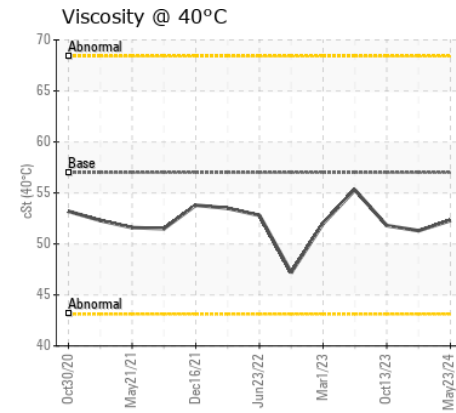
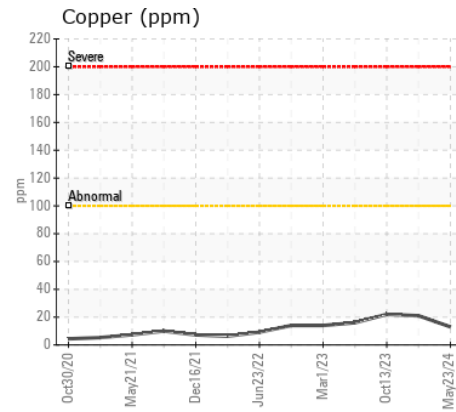
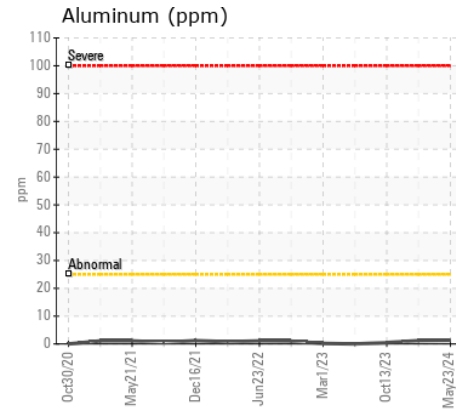
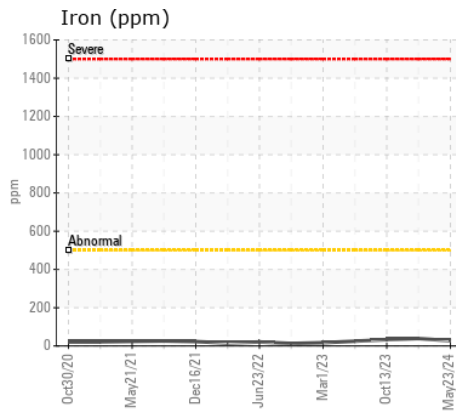
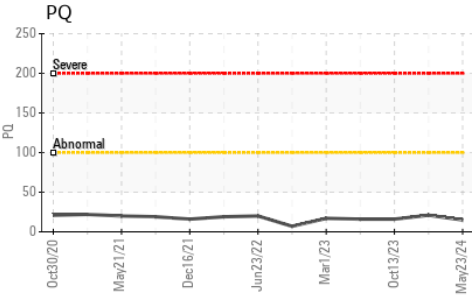
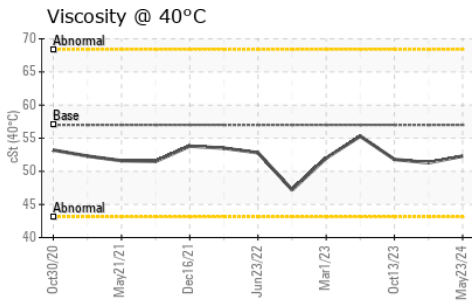
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	5	3	3
Potassium	ppm	ASTM D5185m	>20	3	2	0
Water		WC Method	>.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	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	>.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<1	3	6
Boron	ppm	ASTM D5185m	6	4	4	4
Barium	ppm	ASTM D5185m	0	2	0	0
Molybdenum	ppm	ASTM D5185m	0	1	0	0
Manganese	ppm	ASTM D5185m		1	<1	1
Magnesium	ppm	ASTM D5185m	145	96	92	101
Calcium	ppm	ASTM D5185m	3570	3357	3235	3108
Phosphorus	ppm	ASTM D5185m	1290	1037	1043	943
Zinc	ppm	ASTM D5185m	1640	1240	1178	1081
Sulfur	ppm	ASTM D5185m		4503	3883	3077
Visc @ 40°C	cSt	ASTM D445	57.0	52.3	51.3	51.8



Certificate L2367

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

Sample No. : JR0196847

Lab Number : 06190762

Unique Number : 11047514

Test Package : MOBCE (Additional Tests: PQ)

Received : 24 May 2024

Tested : 29 May 2024

Diagnosed : 29 May 2024 - Sean Felton

JRE - HOPE MILLS/FAYETTEVILLE

5039 HWY 301 SOUTH

HOPE MILLS, NC

US 28348

Contact: FAYETTEVILLE SHOP

stephen.mullis@jamesriverequipment.com; panastasio@wearcheck.com

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)

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F: