



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[W67070]
 Machine Id
JOHN DEERE 524K 1DW524KZTJF688376
 Component
Front Differential
 Fluid
JOHN DEERE HY-GARD HYD/TRANS (5 GAL)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: W67070)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0215417	JR0143724	JR0119029
Sample Date		Client Info		20 May 2024	14 Sep 2022	27 Apr 2022
Machine Age	hrs	Client Info		4544	3464	2956
Oil Age	hrs	Client Info		4036	0	500
Filter Age	hrs	Client Info		0	0	500
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		N/A	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184		79	59	16
Iron	ppm	ASTM D5185m	>500	364	212	<1
Chromium	ppm	ASTM D5185m	>10	3	1	0
Nickel	ppm	ASTM D5185m	>10	3	1	0
Titanium	ppm	ASTM D5185m		1	<1	0
Silver	ppm	ASTM D5185m		1	<1	<1
Aluminum	ppm	ASTM D5185m	>25	1	1	<1
Lead	ppm	ASTM D5185m	>25	9	6	<1
Copper	ppm	ASTM D5185m	>100	31	18	0
Tin	ppm	ASTM D5185m	>10	3	2	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

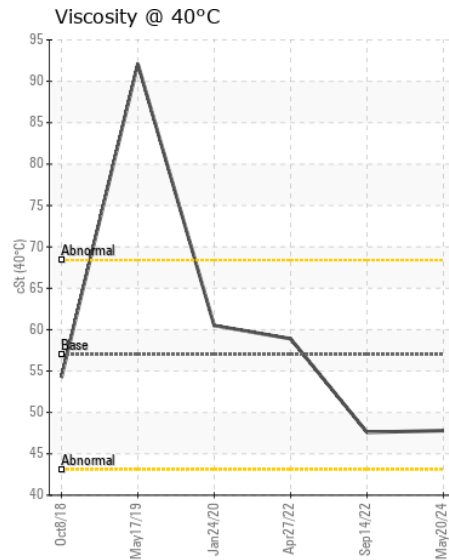
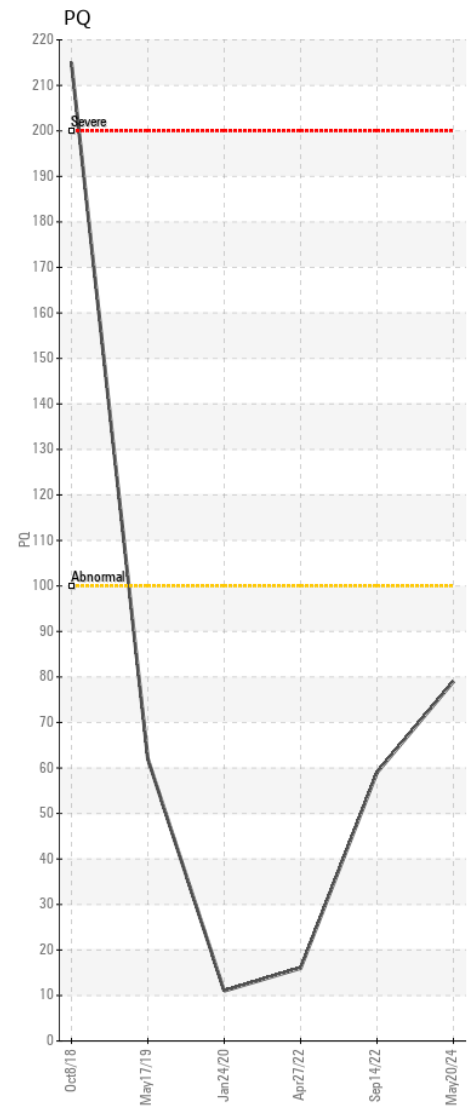
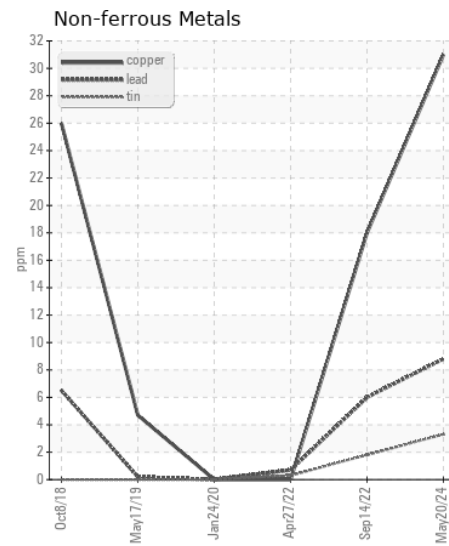
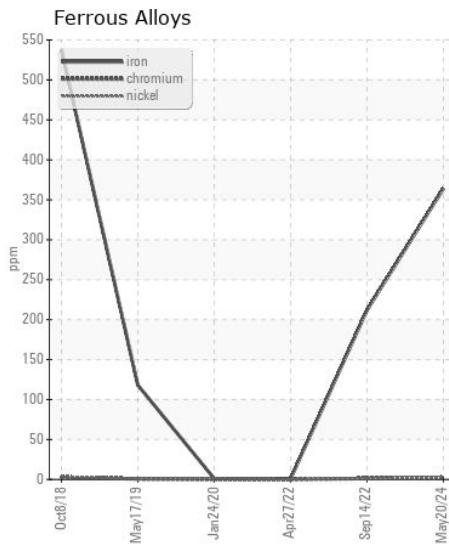
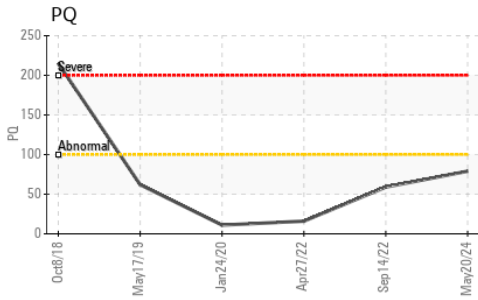
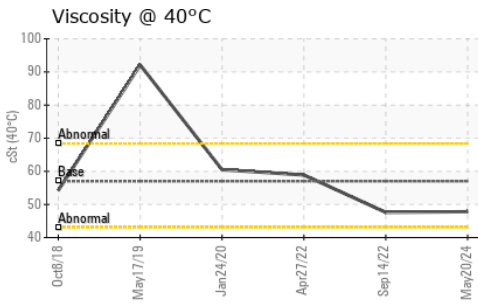
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	24	13	5
Potassium	ppm	ASTM D5185m	>20	4	0	<1
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		4	3	<1
Boron	ppm	ASTM D5185m	6	5	7	2
Barium	ppm	ASTM D5185m	0	1	0	0
Molybdenum	ppm	ASTM D5185m	0	7	3	<1
Manganese	ppm	ASTM D5185m		6	3	<1
Magnesium	ppm	ASTM D5185m	145	108	99	112
Calcium	ppm	ASTM D5185m	3570	3564	3330	3581
Phosphorus	ppm	ASTM D5185m	1290	1078	944	1063
Zinc	ppm	ASTM D5185m	1640	1309	1204	1207
Sulfur	ppm	ASTM D5185m		4221	3499	3215
Visc @ 40°C	cSt	ASTM D445	57.0	47.8	47.6	58.9



Certificate L2367

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

Sample No. : JR0215417

Lab Number : 06191283

Unique Number : 11048035

Test Package : CONST (Additional Tests: PQ)

Received : 24 May 2024

Tested : 29 May 2024

Diagnosed : 29 May 2024 - Sean Felton

JRE - CHARLOTTE

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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)