



WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[W52762 HENERSON]
 Machine Id
JOHN DEERE 624K 1DW624KZLCE649536
 Component
Rear Differential
 Fluid
JOHN DEERE HY-GARD HYD/TRANS (--- QTS)

RECOMMENDATION

The oil 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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0224906	JR0049220	JRMC438829
Sample Date		Client Info		02 Jul 2024	05 Jun 2020	31 Jan 2018
Machine Age	hrs	Client Info		5931	3970	2399
Oil Age	hrs	Client Info		0	2000	2399
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

Gear wear is indicated. All other component wear rates are normal.

PQ		ASTM D8184		184	106	194
Iron	ppm	ASTM D5185m	>500	▲ 961	450	869
Chromium	ppm	ASTM D5185m	>10	6	2	4
Nickel	ppm	ASTM D5185m	>10	9	6	10
Titanium	ppm	ASTM D5185m		<1	0	2
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>25	3	2	2
Lead	ppm	ASTM D5185m	>25	4	3	7
Copper	ppm	ASTM D5185m	>100	88	73	63
Tin	ppm	ASTM D5185m	>10	5	8	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	VLITE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

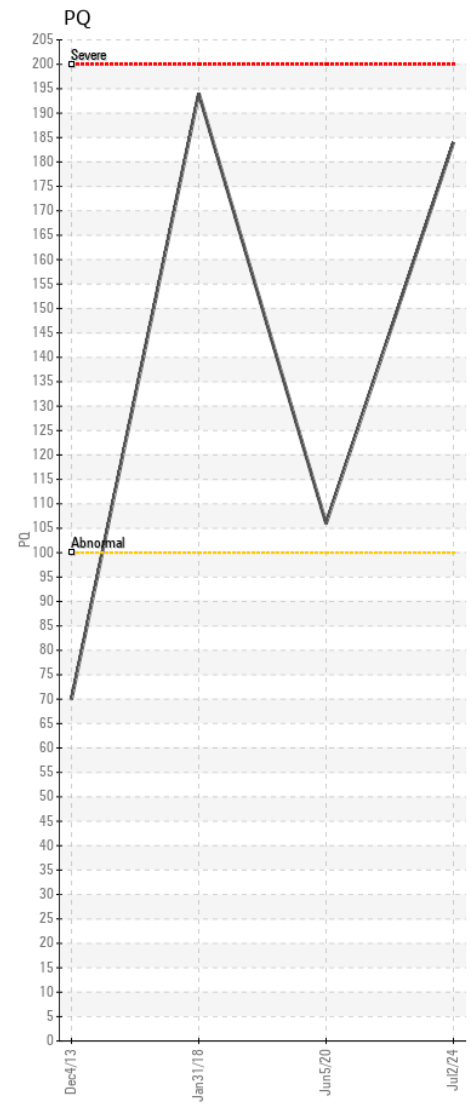
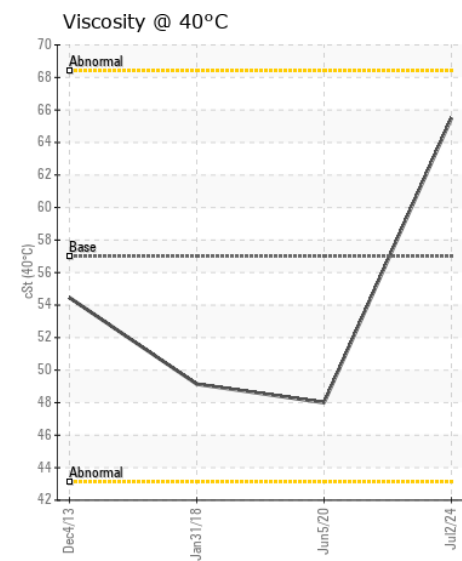
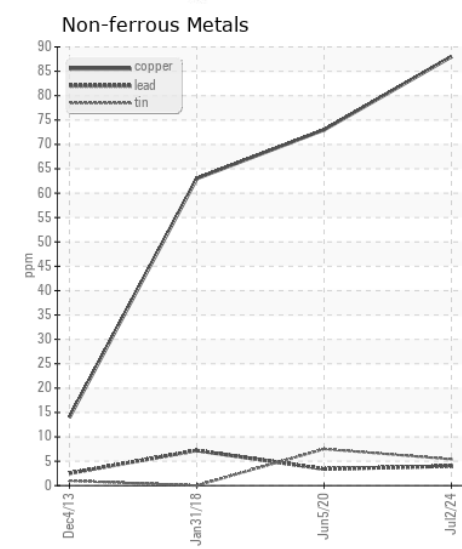
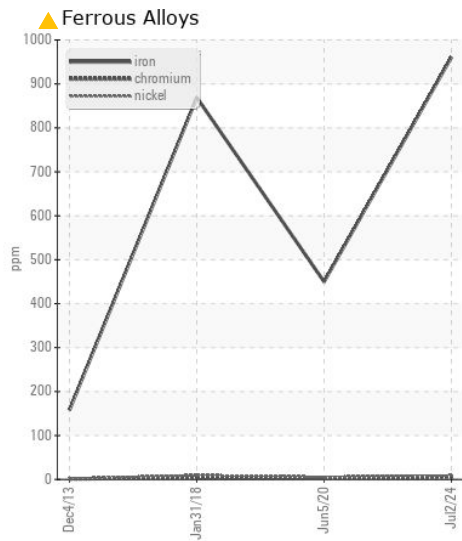
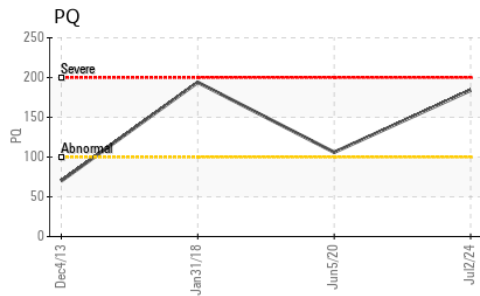
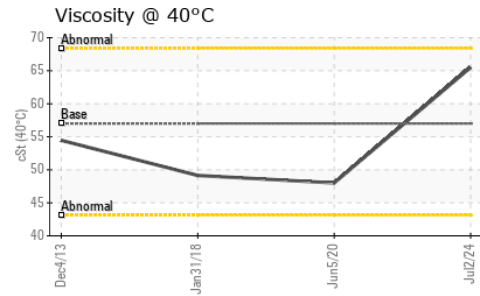
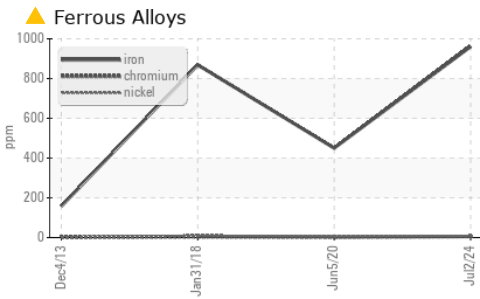
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	34	29	45
Potassium	ppm	ASTM D5185m	>20	3	1	6
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		0	2	8
Boron	ppm	ASTM D5185m	6	8	3	<1
Barium	ppm	ASTM D5185m	0	1	0	2
Molybdenum	ppm	ASTM D5185m	0	6	0	0
Manganese	ppm	ASTM D5185m		8	4	10
Magnesium	ppm	ASTM D5185m	145	111	96	96
Calcium	ppm	ASTM D5185m	3570	3477	3406	3339
Phosphorus	ppm	ASTM D5185m	1290	1106	1015	978
Zinc	ppm	ASTM D5185m	1640	1204	1093	1097
Sulfur	ppm	ASTM D5185m		3406	3373	3204
Visc @ 40°C	cSt	ASTM D445	57.0	65.5	48.0	49.14



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0224906 **Received** : 11 Jul 2024
Lab Number : 06234065 **Tested** : 12 Jul 2024
Unique Number : 11122899 **Diagnosed** : 14 Jul 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

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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)