



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 644K 1DW644KZCFF666910
Component
Front Differential
Fluid
JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0195825	JR0184008	JR0166374
Sample Date		Client Info		12 Jan 2024	07 Sep 2023	30 Mar 2023
Machine Age	hrs	Client Info		10437	10096	9779
Oil Age	hrs	Client Info		10120	0	9348
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changed	Not Changed	Changed
Filter Changed		Client Info		Not Changed	Not Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>135	26	20	49
Iron	ppm	ASTM D5185m	>420	47	58	157
Chromium	ppm	ASTM D5185m	>4	<1	0	<1
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>5	1	0	<1
Lead	ppm	ASTM D5185m	>95	22	19	55
Copper	ppm	ASTM D5185m	>170	13	7	16
Tin	ppm	ASTM D5185m	>15	<1	<1	1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

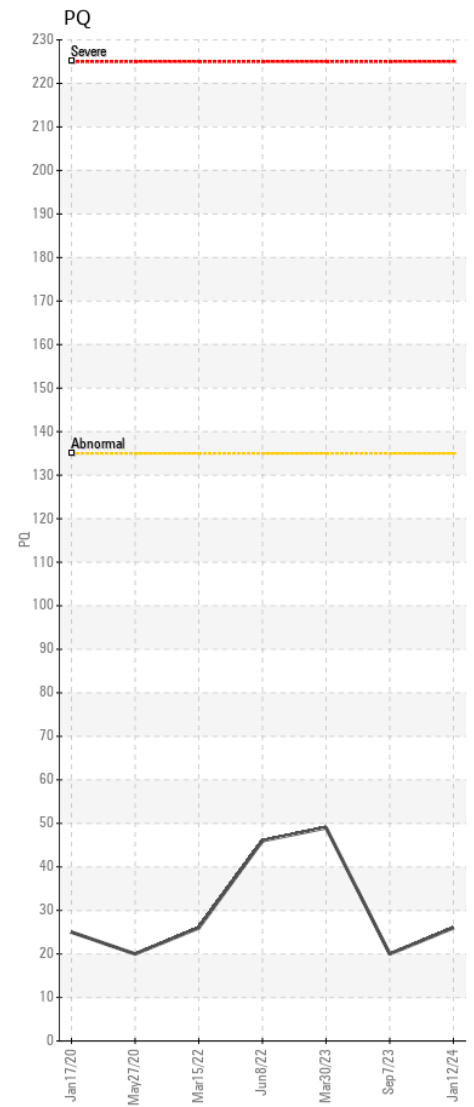
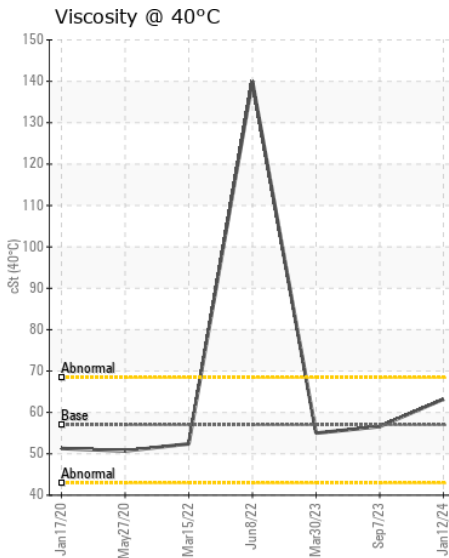
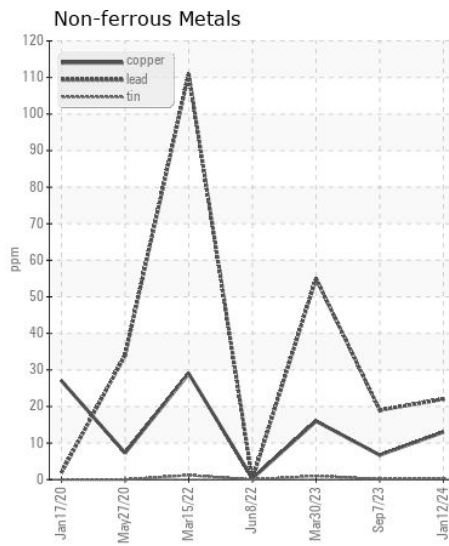
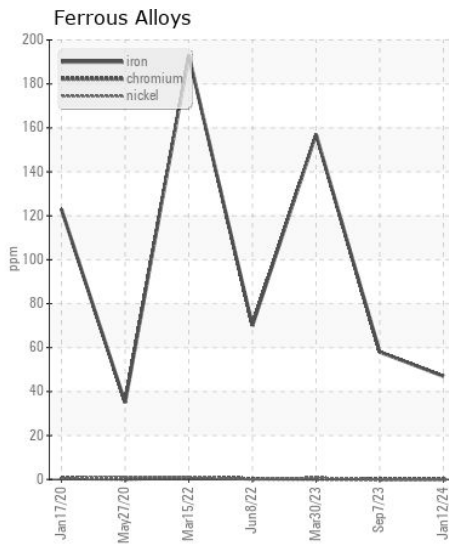
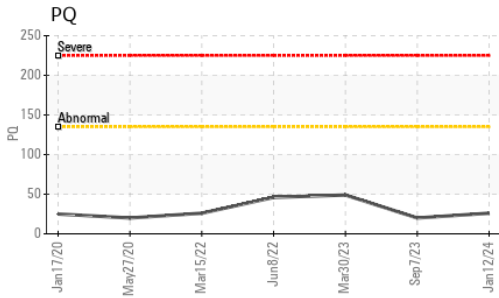
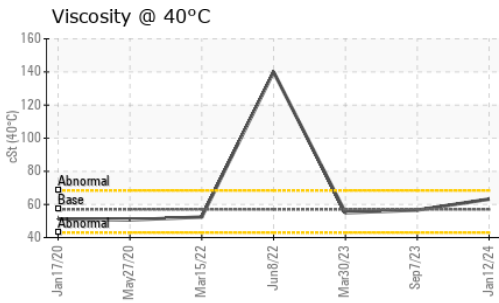
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>35	4	4	8
Potassium	ppm	ASTM D5185m	>20	0	0	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		0	1	4
Boron	ppm	ASTM D5185m	6	0	8	4
Barium	ppm	ASTM D5185m	0	0	8	0
Molybdenum	ppm	ASTM D5185m	0	6	7	3
Manganese	ppm	ASTM D5185m		1	<1	2
Magnesium	ppm	ASTM D5185m	145	117	117	104
Calcium	ppm	ASTM D5185m	3570	3297	3287	3258
Phosphorus	ppm	ASTM D5185m	1290	1022	940	991
Zinc	ppm	ASTM D5185m	1640	1223	1174	1163
Sulfur	ppm	ASTM D5185m		3555	3989	3847
Visc @ 40°C	cSt	ASTM D445	57.0	63.2	56.6	55.0



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0195825 **Received** : 16 Jan 2024
Lab Number : 06061436 **Diagnosed** : 17 Jan 2024
Unique Number : 10832818 **Diagnostician** : Sean Felton
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)