



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
2016
Component
Rear 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		JR0195385	JR0169542	JR0159475
Sample Date		Client Info		20 Feb 2024	06 Jul 2023	19 Apr 2023
Machine Age	hrs	Client Info		4163	2987	2513
Oil Age	hrs	Client Info		4000	1000	520
Filter Age	hrs	Client Info		4000	1000	520
Oil Changed		Client Info		Changed	Not Changd	N/A
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184		163	89	53
Iron	ppm	ASTM D5185m	>500	237	223	108
Chromium	ppm	ASTM D5185m	>10	2	1	0
Nickel	ppm	ASTM D5185m	>10	7	3	2
Titanium	ppm	ASTM D5185m		<1	2	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	3	6	2
Lead	ppm	ASTM D5185m	>25	15	8	1
Copper	ppm	ASTM D5185m	>100	207	84	64
Tin	ppm	ASTM D5185m	>10	9	4	2
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	MODER	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

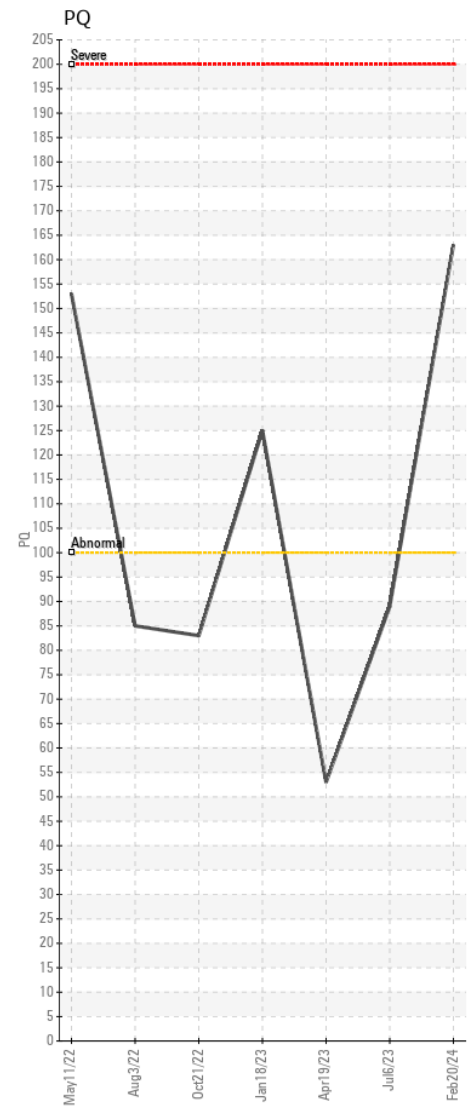
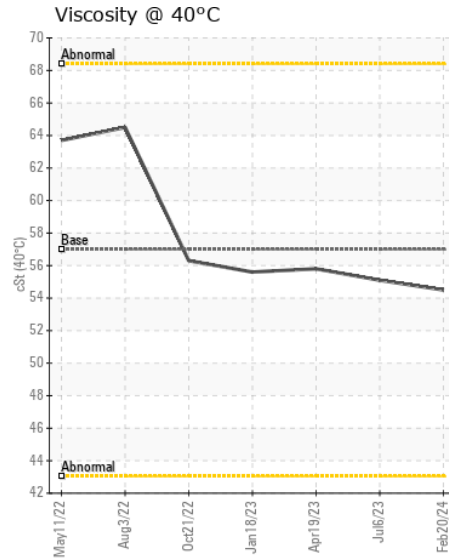
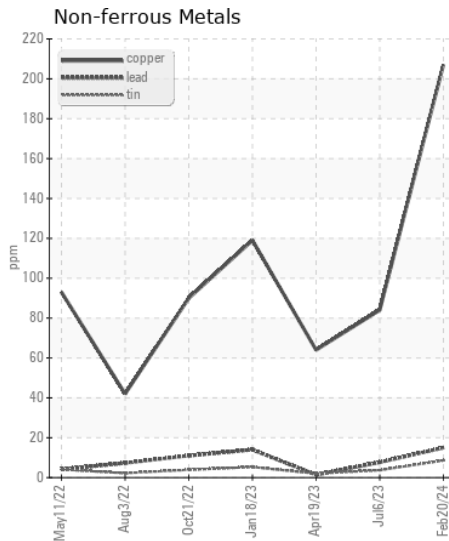
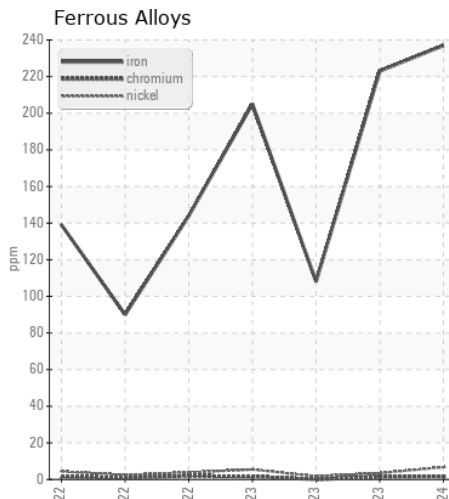
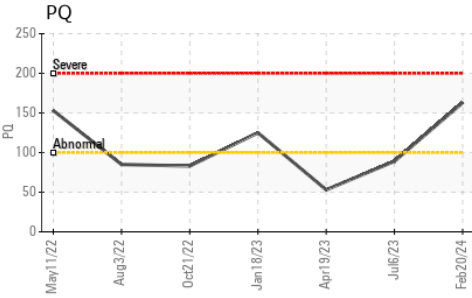
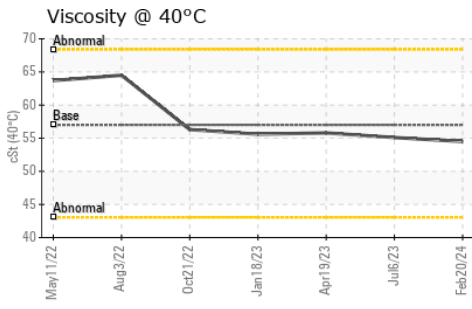
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	14	46	8
Potassium	ppm	ASTM D5185m	>20	2	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		3	3	1
Boron	ppm	ASTM D5185m	6	5	6	4
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	0	1	<1	<1
Manganese	ppm	ASTM D5185m		12	9	7
Magnesium	ppm	ASTM D5185m	145	97	97	110
Calcium	ppm	ASTM D5185m	3570	3517	3418	3733
Phosphorus	ppm	ASTM D5185m	1290	921	997	1097
Zinc	ppm	ASTM D5185m	1640	1218	1196	1380
Sulfur	ppm	ASTM D5185m		3407	4469	4108
Visc @ 40°C	cSt	ASTM D445	57.0	54.5	55.1	55.8



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0195385 **Received** : 20 Mar 2024
Lab Number : 06123946 **Tested** : 21 Mar 2024
Unique Number : 10938097 **Diagnosed** : 22 Mar 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

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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)