



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 644K 1DW644KZVKF695495

Component
Front Differential

Fluid
TDH FLUID SAE 75W80 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) TDH FLUID SAE 75W80. Please confirm.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0213412	JR0127614	---
Sample Date		Client Info		08 May 2024	27 Jul 2022	---
Machine Age	hrs	Client Info		7035	5034	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		N/A	N/A	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				NORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>135	11	16	---
Iron	ppm	ASTM D5185m	>420	36	446	---
Chromium	ppm	ASTM D5185m	>4	0	1	---
Nickel	ppm	ASTM D5185m	>4	0	<1	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m		0	<1	---
Aluminum	ppm	ASTM D5185m	>5	2	6	---
Lead	ppm	ASTM D5185m	>95	41	▲ 213	---
Copper	ppm	ASTM D5185m	>170	17	154	---
Tin	ppm	ASTM D5185m	>15	1	13	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

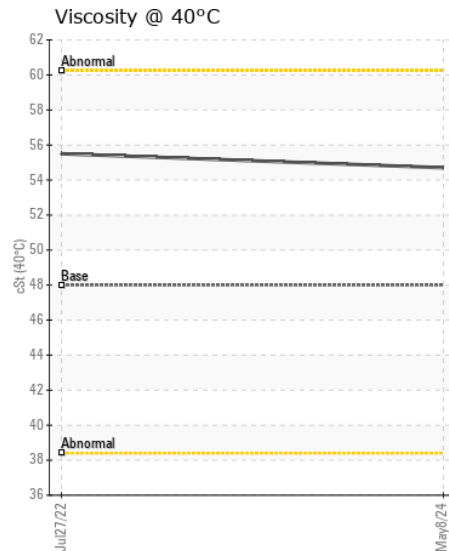
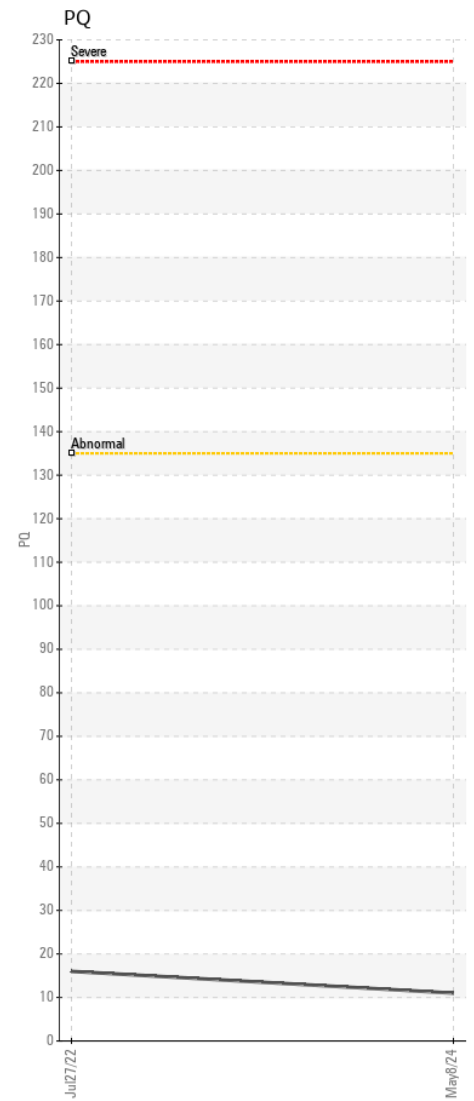
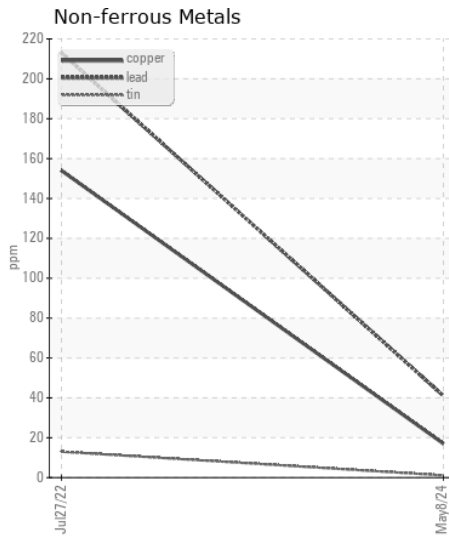
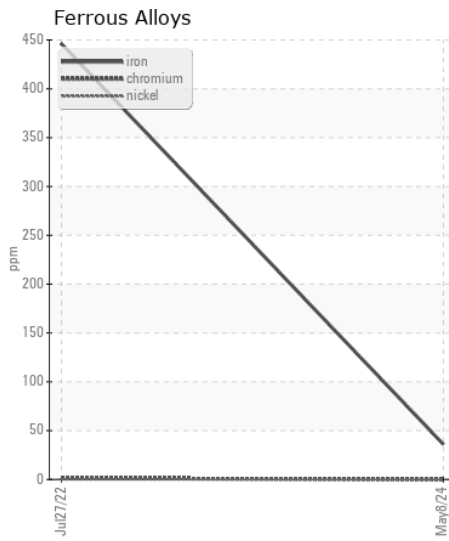
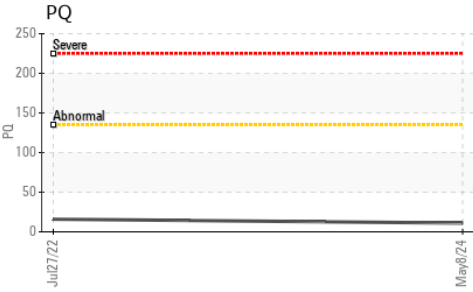
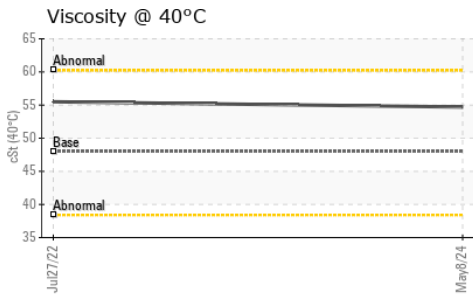
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>35	6	28	---
Potassium	ppm	ASTM D5185m	>20	0	0	---
Water		WC Method	>.2	NEG	NEG	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>.2	NEG	NEG	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		3	8	---
Boron	ppm	ASTM D5185m	10	4	15	---
Barium	ppm	ASTM D5185m	10	<1	<1	---
Molybdenum	ppm	ASTM D5185m	10	6	23	---
Manganese	ppm	ASTM D5185m		<1	4	---
Magnesium	ppm	ASTM D5185m	100	100	145	---
Calcium	ppm	ASTM D5185m	3500	2882	3072	---
Phosphorus	ppm	ASTM D5185m	1150	964	908	---
Zinc	ppm	ASTM D5185m	1150	1089	988	---
Sulfur	ppm	ASTM D5185m	5000	3890	4080	---
Visc @ 40°C	cSt	ASTM D445	48	54.7	55.5	---



Certificate L2367

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

Sample No. : JR0213412

Lab Number : 06174163

Unique Number : 11020216

Test Package : CONST (Additional Tests: PQ)

Received : 09 May 2024

Tested : 10 May 2024

Diagnosed : 10 May 2024 - Wes Davis

JRE - GREENSBORO

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US 27409

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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)