



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 644K 1DW644KZLDE656661
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		JR0218412	JR0040758	JRMC436099
Sample Date		Client Info		11 Jun 2024	29 Apr 2020	02 Apr 2018
Machine Age	hrs	Client Info		7978	5829	3961
Oil Age	hrs	Client Info		0	1800	2000
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>135	42	51	52
Iron	ppm	ASTM D5185m	>420	212	163	120
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>5	<1	2	<1
Lead	ppm	ASTM D5185m	>95	<1	<1	<1
Copper	ppm	ASTM D5185m	>170	10	6	5
Tin	ppm	ASTM D5185m	>15	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

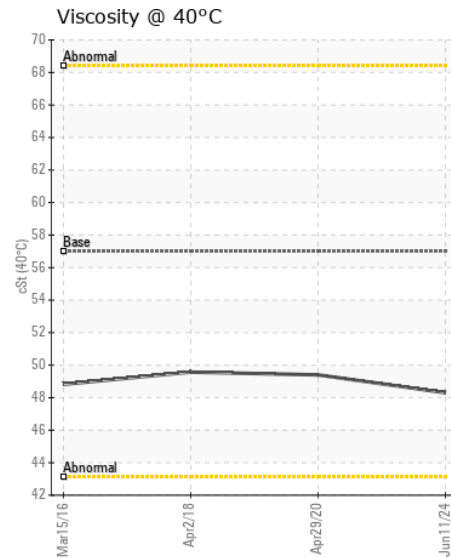
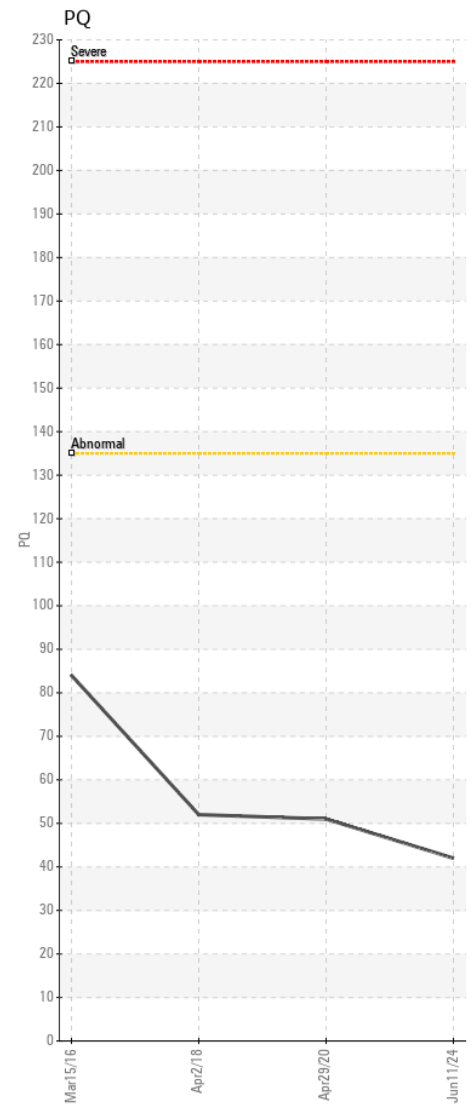
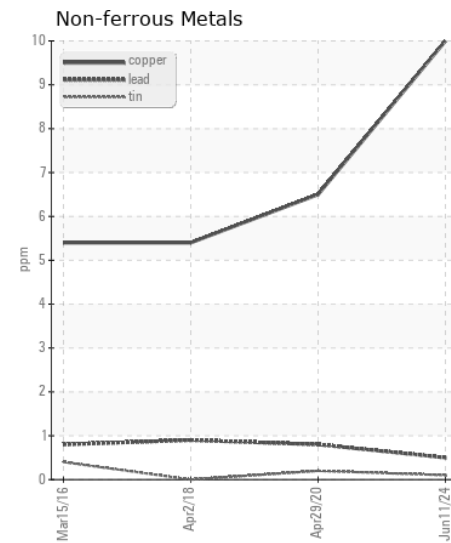
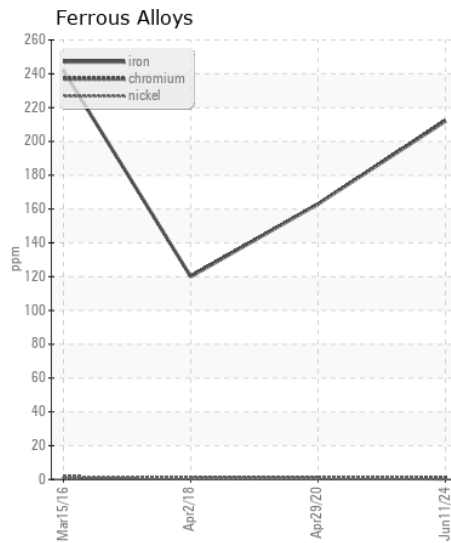
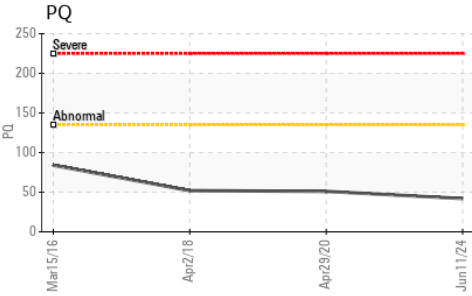
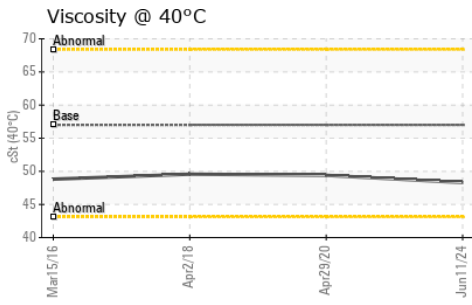
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>35	11	20	10
Potassium	ppm	ASTM D5185m	>20	0	1	3
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	2
Boron	ppm	ASTM D5185m	6	<1	4	2
Barium	ppm	ASTM D5185m	0	0	<1	<1
Molybdenum	ppm	ASTM D5185m	0	3	<1	0
Manganese	ppm	ASTM D5185m		2	2	2
Magnesium	ppm	ASTM D5185m	145	97	99	103
Calcium	ppm	ASTM D5185m	3570	3331	3445	3683
Phosphorus	ppm	ASTM D5185m	1290	1037	1021	1045
Zinc	ppm	ASTM D5185m	1640	1183	1178	1298
Sulfur	ppm	ASTM D5185m		3953	4780	3337
Visc @ 40°C	cSt	ASTM D445	57.0	48.3	49.4	49.57



Certificate L2367

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

Sample No. : JR0218412

Lab Number : 06216021

Unique Number : 11088885

Test Package : CONST (Additional Tests: PQ)

Received : 20 Jun 2024

Tested : 22 Jun 2024

Diagnosed : 22 Jun 2024 - Wes Davis

R.J. SMITH

1711 REYMET RD

RICHMOND, VA

US 23237

Contact: KIRBY MAITLAND

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)

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