



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 644K 1DW644KPCA0630483
Component
Front Differential
Fluid
JOHN DEERE HY-GARD HYD/TRANS (30 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0213089	JRMC358569	JRMC355316
Sample Date		Client Info		30 May 2024	12 Dec 2012	06 Apr 2012
Machine Age	hrs	Client Info		26437	6104	4324
Oil Age	hrs	Client Info		0	1000	1000
Filter Age	hrs	Client Info		0	1000	500
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>135	21	12.0	14.0
Iron	ppm	ASTM D5185m	>420	69	53	161
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>5	<1	2	2
Lead	ppm	ASTM D5185m	>95	19	3	74
Copper	ppm	ASTM D5185m	>170	24	5	16
Tin	ppm	ASTM D5185m	>15	1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	MODER	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

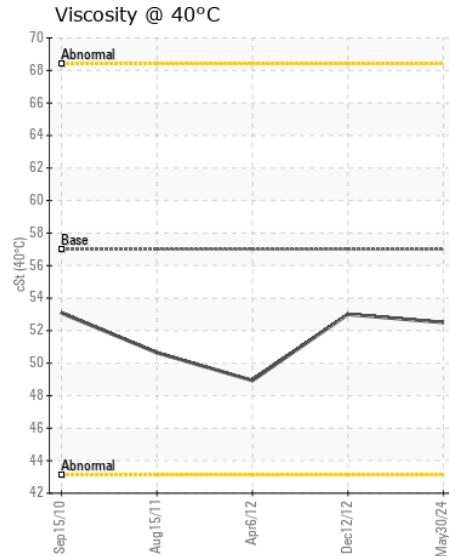
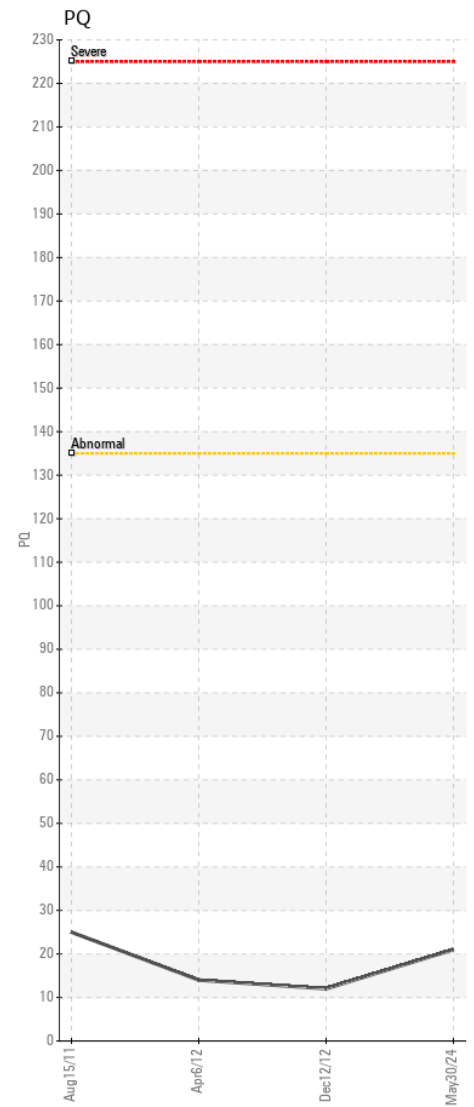
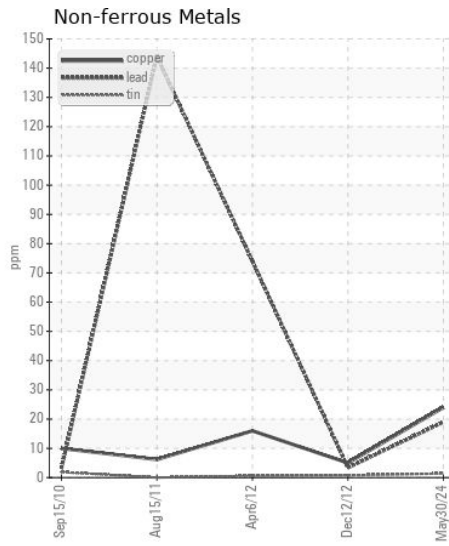
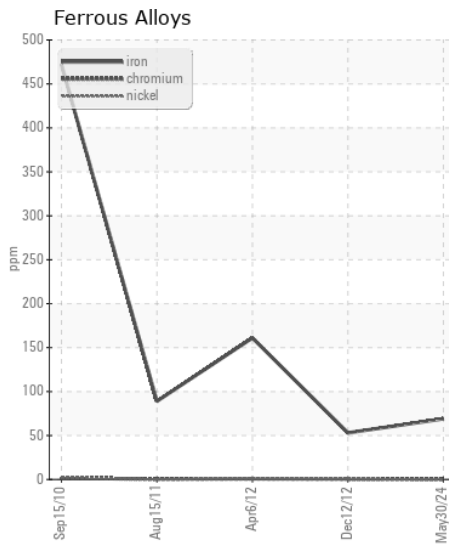
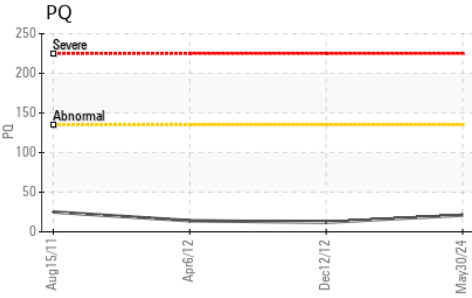
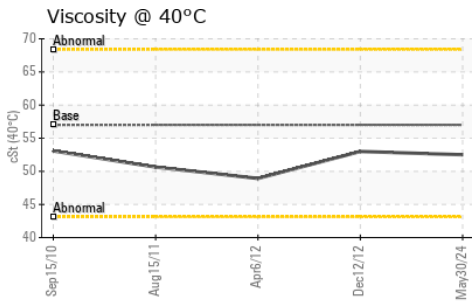
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>35	8	9	20
Potassium	ppm	ASTM D5185m	>20	0	3	1
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		4	2	5
Boron	ppm	ASTM D5185m	6	0	3	3
Barium	ppm	ASTM D5185m	0	0	<1	0
Molybdenum	ppm	ASTM D5185m	0	5	2	<1
Manganese	ppm	ASTM D5185m		1	2	1
Magnesium	ppm	ASTM D5185m	145	90	76	79
Calcium	ppm	ASTM D5185m	3570	3072	2994	3062
Phosphorus	ppm	ASTM D5185m	1290	1037	984	1000
Zinc	ppm	ASTM D5185m	1640	1111	1040	920
Sulfur	ppm	ASTM D5185m		3859	2928	3052
Visc @ 40°C	cSt	ASTM D445	57.0	52.5	53.00	48.93



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0213089 **Received** : 31 May 2024
Lab Number : 06196974 **Tested** : 03 Jun 2024
Unique Number : 11059097 **Diagnosed** : 03 Jun 2024 - Wes Davis
Test Package : CONST (Additional Tests: PQ)

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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