



WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Area
[16W15177]
Machine Id
JOHN DEERE 650K-II 1T0650KKCNF430135
Component
Left Final Drive
Fluid
JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. (Customer Sample Comment: 16W15177)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0196214	JR0185564	JR0173689
Sample Date		Client Info		18 Dec 2023	06 Sep 2023	18 May 2023
Machine Age	hrs	Client Info		1970	1561	1027
Oil Age	hrs	Client Info		943	534	1027
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changed	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>1250	55	17	26
Iron	ppm	ASTM D5185m	>750	45	39	47
Chromium	ppm	ASTM D5185m	>9	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>40	<1	4	0
Lead	ppm	ASTM D5185m	>15	0	0	0
Copper	ppm	ASTM D5185m	>40	<1	0	<1
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

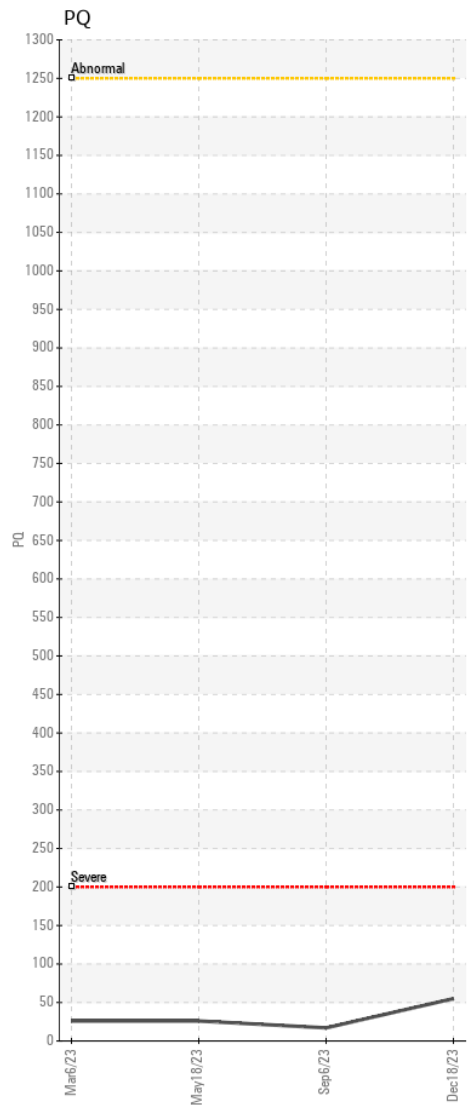
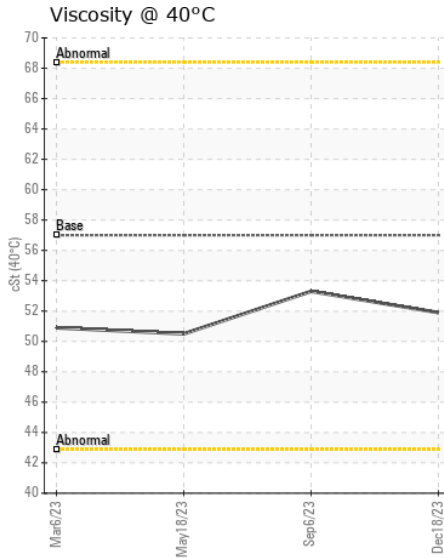
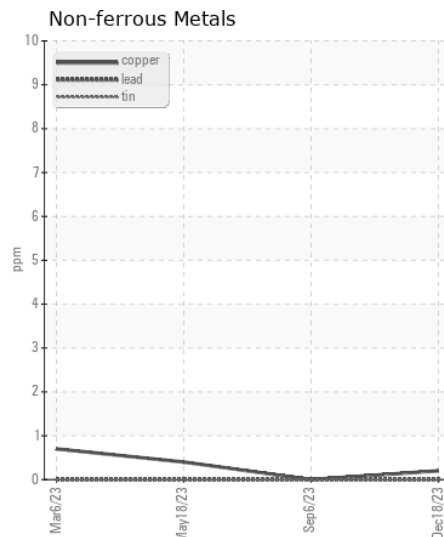
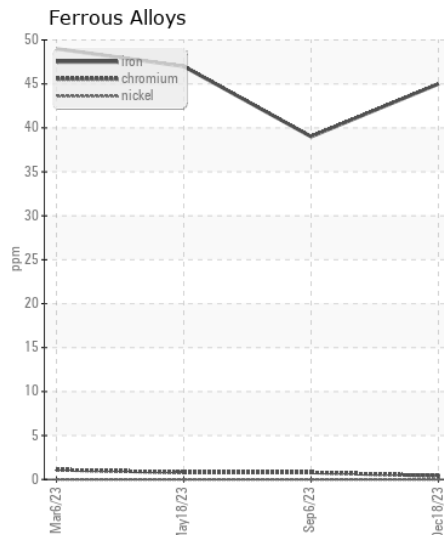
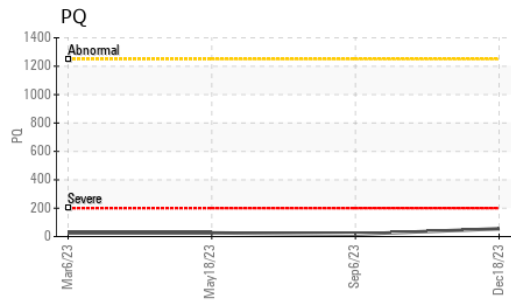
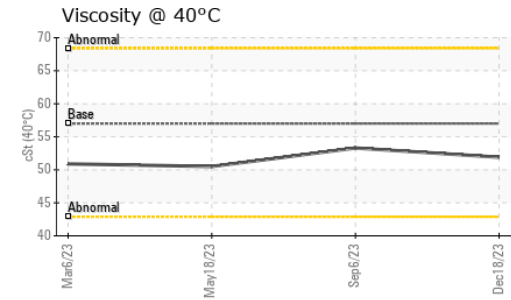
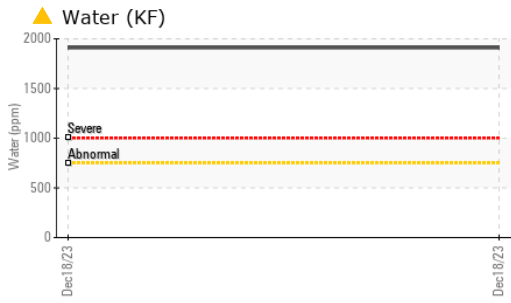
There is a light concentration of water present in the oil.

Silicon	ppm	ASTM D5185m	>75	14	10	6
Potassium	ppm	ASTM D5185m	>20	0	2	1
Water	%	ASTM D6304	>0.075	▲ 0.191	---	---
ppm Water	ppm	ASTM D6304	>750	▲ 1910	---	---
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	>0.075	0.2%	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>51	2	0	3
Boron	ppm	ASTM D5185m	6	6	0	0
Barium	ppm	ASTM D5185m	0	0	2	0
Molybdenum	ppm	ASTM D5185m	0	4	0	<1
Manganese	ppm	ASTM D5185m		1	1	4
Magnesium	ppm	ASTM D5185m	145	111	100	98
Calcium	ppm	ASTM D5185m	3570	3108	3538	3469
Phosphorus	ppm	ASTM D5185m	1290	978	1039	991
Zinc	ppm	ASTM D5185m	1640	1142	1249	1267
Sulfur	ppm	ASTM D5185m		3207	3737	3872
Visc @ 40°C	cSt	ASTM D445	57.0	51.9	53.3	50.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0196214 **Received** : 21 Dec 2023
Lab Number : 06042733 **Diagnosed** : 26 Dec 2023
Unique Number : 10803341 **Diagnostician** : Don Baldrige
Test Package : CONST (Additional Tests: KF, 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)

JRE - CASTLE HAYNE
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