



WEAR	ATTENTION
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 700K 1T0700KXTHF315362
Component
Right Final Drive
Fluid
JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0222506	JR0197448	JR0186325
Sample Date		Client Info		14 Jun 2024	07 Dec 2023	24 Aug 2023
Machine Age	hrs	Client Info		8655	7805	7373
Oil Age	hrs	Client Info		850	432	759
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changed	Changed	Changed
Filter Changed		Client Info		N/A	Changed	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>1250	104	56	13
Iron	ppm	ASTM D5185m	>750	392	148	8
Chromium	ppm	ASTM D5185m	>9	5	2	0
Nickel	ppm	ASTM D5185m	>10	2	0	<1
Titanium	ppm	ASTM D5185m		2	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>40	22	12	2
Lead	ppm	ASTM D5185m	>15	0	0	<1
Copper	ppm	ASTM D5185m	>40	2	0	<1
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

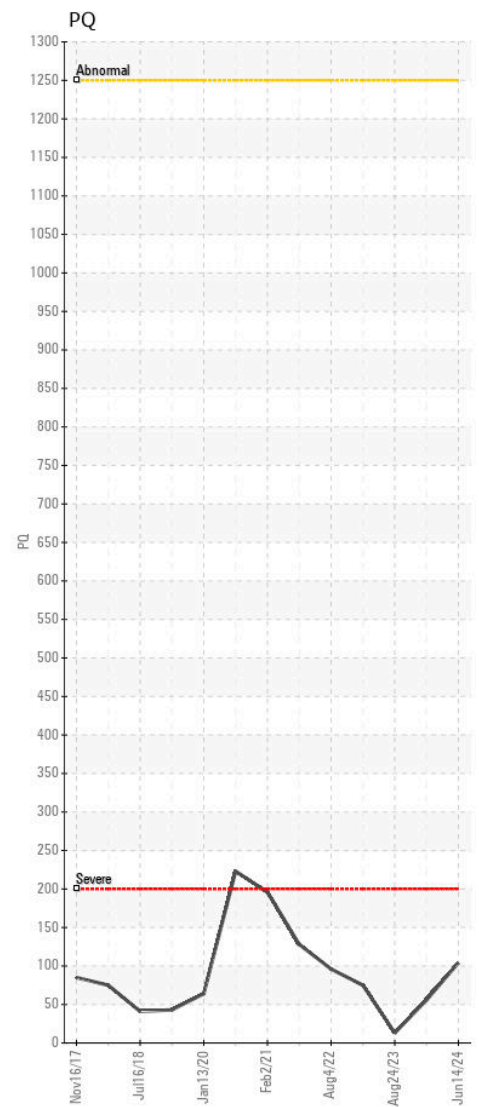
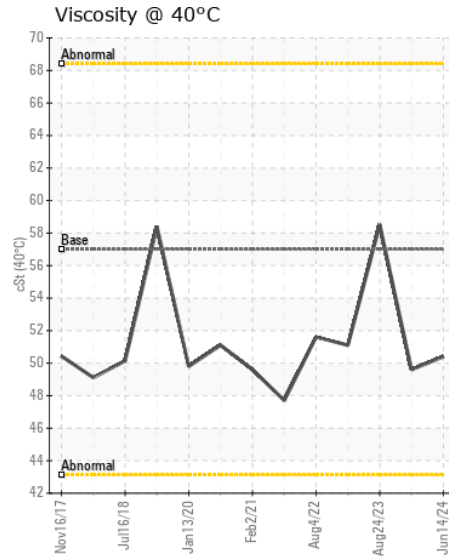
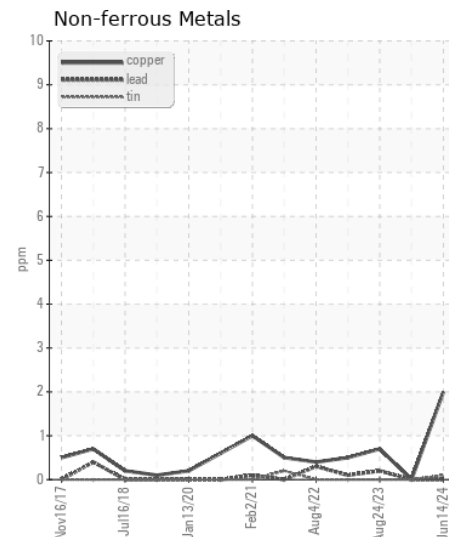
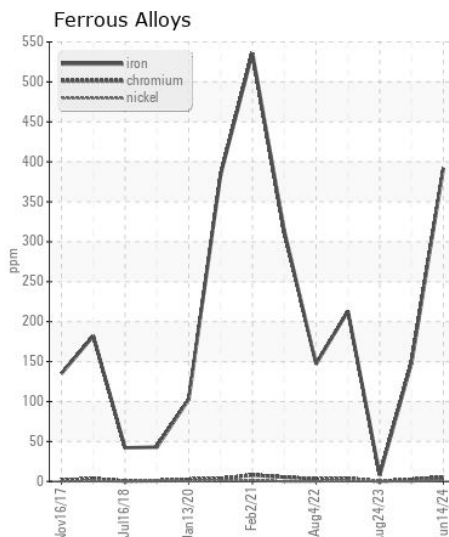
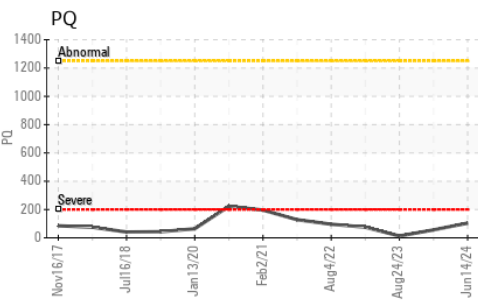
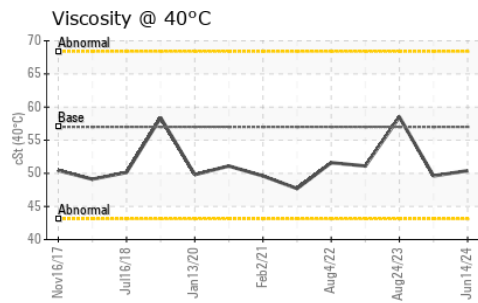
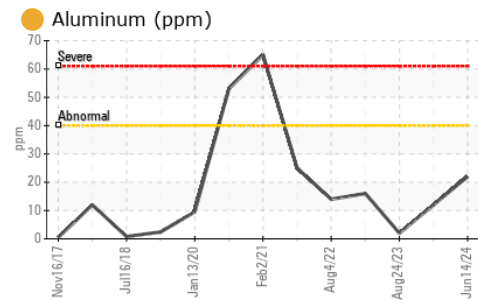
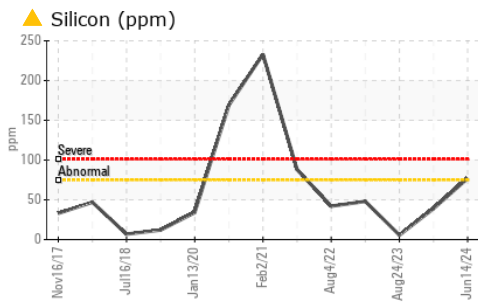
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	77	39	6
Potassium	ppm	ASTM D5185m	>20	4	<1	1
Water		WC Method	>0.075	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	LIGHT	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	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>51	4	0	0
Boron	ppm	ASTM D5185m	6	6	2	1
Barium	ppm	ASTM D5185m	0	0	0	1
Molybdenum	ppm	ASTM D5185m	0	3	0	2
Manganese	ppm	ASTM D5185m		5	2	<1
Magnesium	ppm	ASTM D5185m	145	108	106	104
Calcium	ppm	ASTM D5185m	3570	3403	3388	3666
Phosphorus	ppm	ASTM D5185m	1290	1018	1022	1029
Zinc	ppm	ASTM D5185m	1640	1162	1244	1282
Sulfur	ppm	ASTM D5185m		3886	3543	4052
Visc @ 40°C	cSt	ASTM D445	57.0	50.4	49.6	58.5



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0222506 **Received** : 17 Jun 2024
Lab Number : 06212032 **Tested** : 18 Jun 2024
Unique Number : 11084896 **Diagnosed** : 19 Jun 2024 - Sean Felton
Test Package : CONST (Additional Tests: PQ)

MONTAGUE DEVELOPMENT
 10305 PENNY RD
 RALEIGH, NC
 US 27606
 Contact: Mark Fielding

Certificate L2367
 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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