



WEAR	ATTENTION
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Area
[W51042]
Machine Id
JOHN DEERE 750K 1T0750KXAJF328757
Component
Left Outer Final Drive
Fluid
JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0211497	JR0180407	JR0125104
Sample Date		Client Info		16 Apr 2024	11 Oct 2023	25 Mar 2022
Machine Age	hrs	Client Info		5990	5352	2965
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

Aluminum ppm levels are noted. All other component wear rates are normal.

PQ		ASTM D8184	>1250	85	181	248
Iron	ppm	ASTM D5185m	>750	139	376	463
Chromium	ppm	ASTM D5185m	>9	<1	2	3
Nickel	ppm	ASTM D5185m	>10	0	3	2
Titanium	ppm	ASTM D5185m		2	2	2
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>40	21	22	22
Lead	ppm	ASTM D5185m	>15	<1	0	<1
Copper	ppm	ASTM D5185m	>40	<1	0	2
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

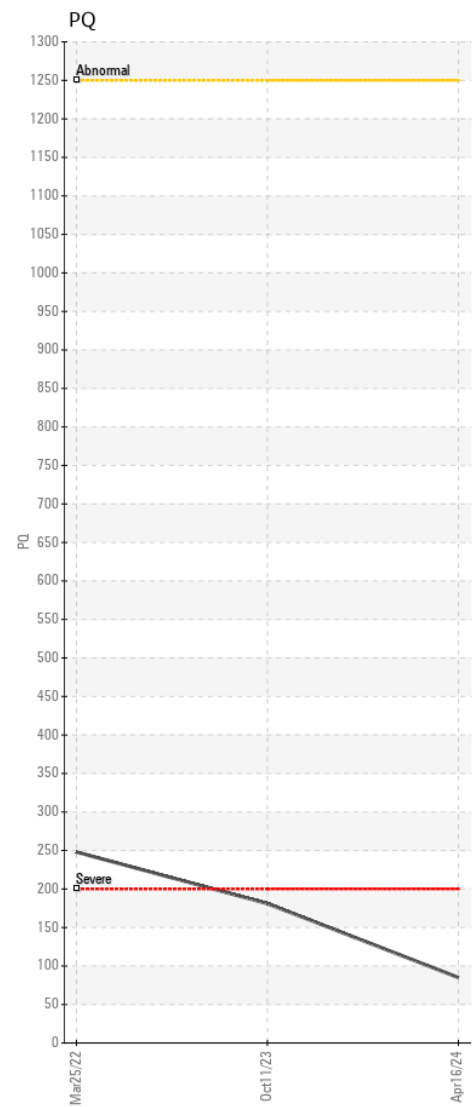
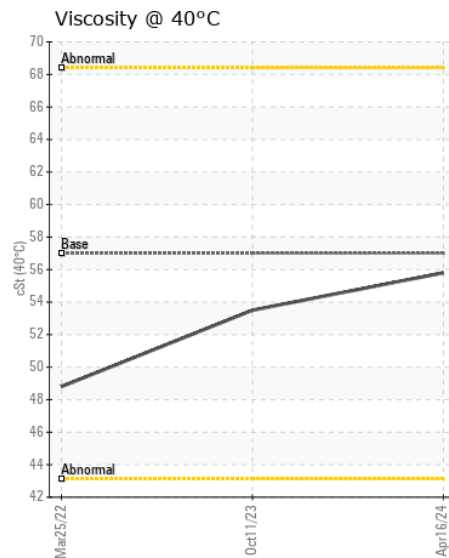
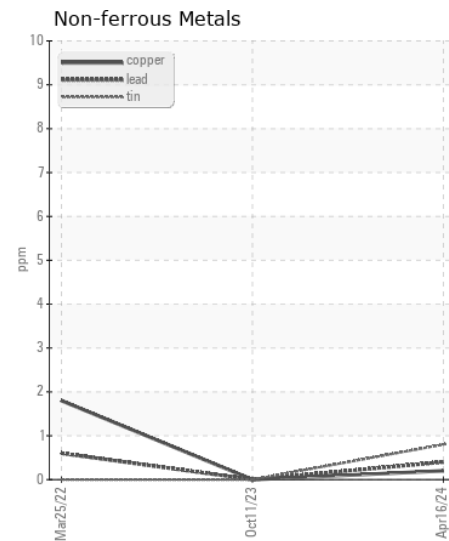
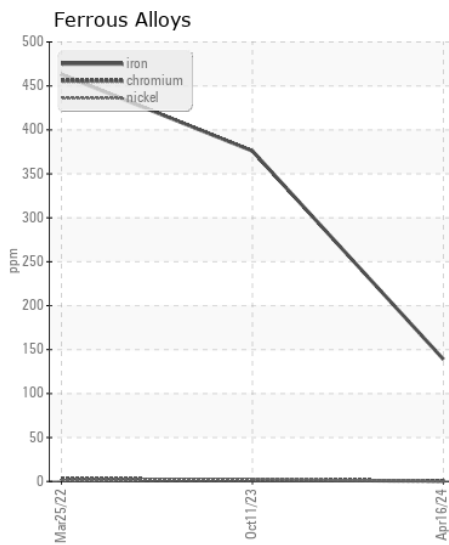
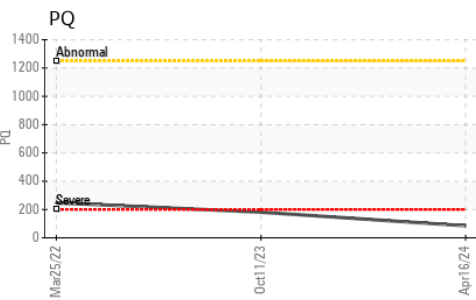
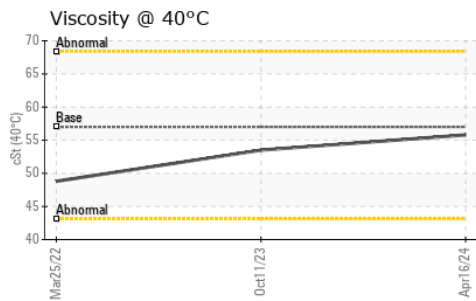
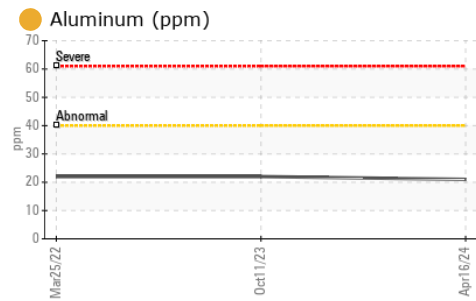
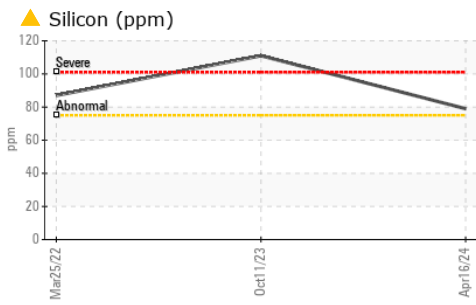
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	79	111	87
Potassium	ppm	ASTM D5185m	>20	0	6	10
Water		WC Method	>0.075	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	LIGHT	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	NEG	NEG	NEG

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185m	>51	2	1	2
Boron	ppm	ASTM D5185m	6	4	<1	2
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	2	0	1
Manganese	ppm	ASTM D5185m		1	3	4
Magnesium	ppm	ASTM D5185m	145	104	103	97
Calcium	ppm	ASTM D5185m	3570	3211	3453	3630
Phosphorus	ppm	ASTM D5185m	1290	961	991	1125
Zinc	ppm	ASTM D5185m	1640	1037	1297	1371
Sulfur	ppm	ASTM D5185m		4274	3735	3034
Visc @ 40°C	cSt	ASTM D445	57.0	55.8	53.5	48.8



Certificate L2367

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

Sample No. : JR0211497

Lab Number : 06154691

Unique Number : 10990114

Test Package : CONST (Additional Tests: PQ)

Received : 19 Apr 2024

Tested : 22 Apr 2024

Diagnosed : 23 Apr 2024 - Sean Felton

JRE - ASHLAND

11047 LEADBETTER RD

ASHLAND, VA

US 23005

Contact: DAVID ZIEG

dzieg@jamesriverequipment.com

T: (804)798-6001

F: (804)798-0292

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)