



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION



Machine Id
JOHN DEERE 744K 047-0043
Component
Hydraulic System
Fluid
SCHAEFFER 315 SIMPLEX SUPREME (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0868453	WC0815006	WC0815240
Sample Date		Client Info		04 Dec 2023	08 Aug 2023	11 May 2023
Machine Age	hrs	Client Info		15336	14298	13300
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changed	Not Changed	Not Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>71	22	67	44
Chromium	ppm	ASTM D5185m	>11	20	0	0
Nickel	ppm	ASTM D5185m	>6	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>11	2	<1	<1
Lead	ppm	ASTM D5185m	>13	0	▲ 42	▲ 15
Copper	ppm	ASTM D5185m	>21	5	▲ 47	▲ 26
Tin	ppm	ASTM D5185m	>5	0	3	2
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

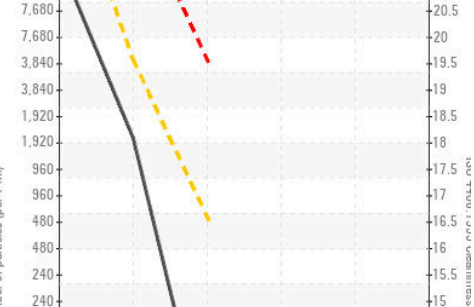
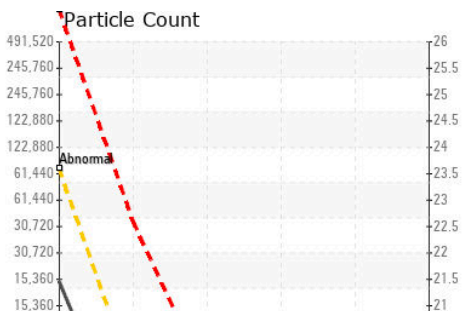
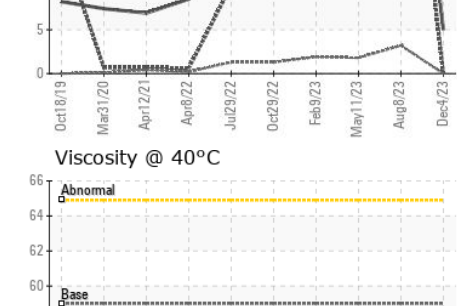
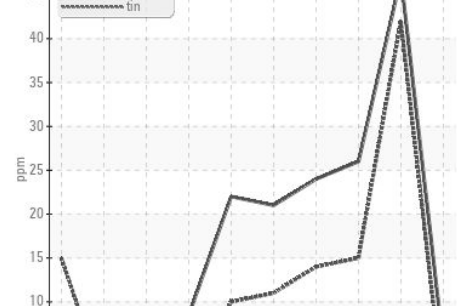
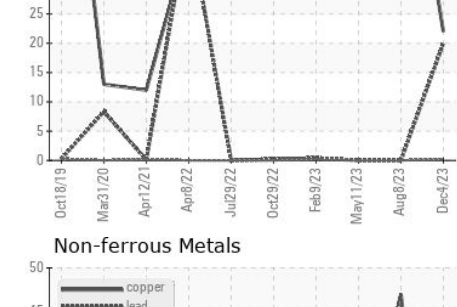
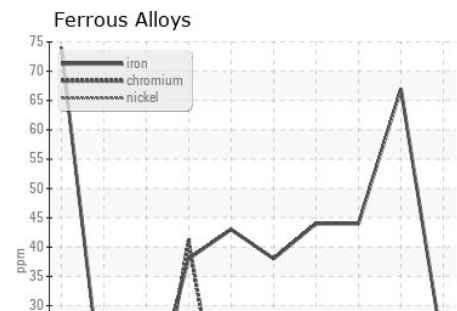
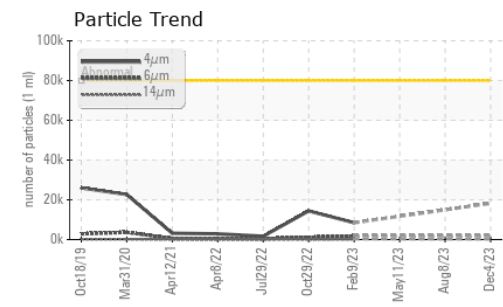
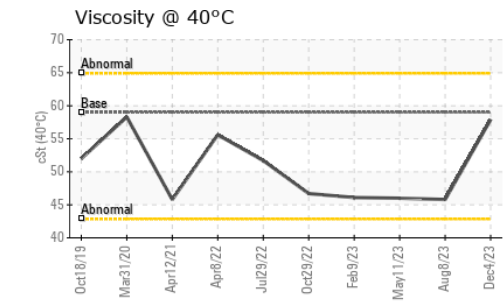
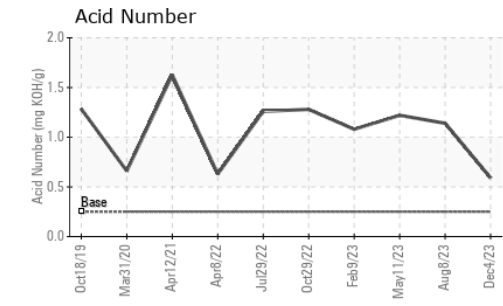
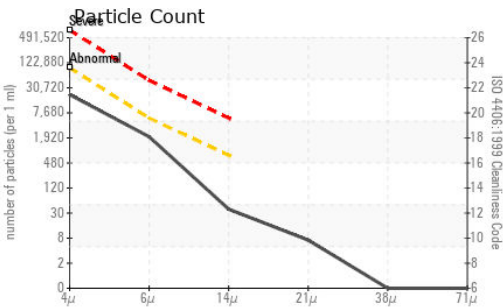
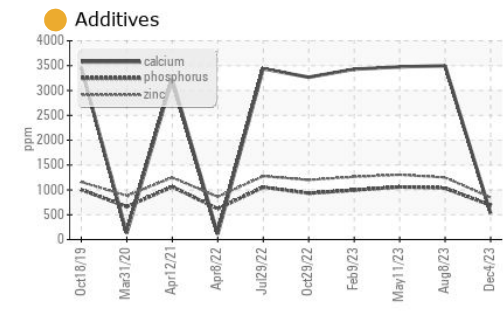
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>24	5	4	4
Potassium	ppm	ASTM D5185m	>20	0	0	<1
Water		WC Method	>0.075	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>80000	18264	---	---
Particles >6µm		ASTM D7647	>5000	1791	---	---
Particles >14µm		ASTM D7647	>640	33	---	---
Particles >21µm		ASTM D7647	>160	6	---	---
Particles >38µm		ASTM D7647	>40	0	---	---
Particles >71µm		ASTM D7647	>10	0	---	---
Oil Cleanliness		ISO 4406 (c)	>23/19/16	21/18/12	---	---
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	▲ MODER	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

Additive levels indicate the addition of a different brand, or type of oil. The AN level is acceptable for this fluid.

Sodium	ppm	ASTM D5185m	>21	4	4	2
Boron	ppm	ASTM D5185m	100	0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	0	2	<1	<1
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	0	● 2	90	84
Calcium	ppm	ASTM D5185m	4300	● 527	3497	3476
Phosphorus	ppm	ASTM D5185m	1400	● 691	1034	1059
Zinc	ppm	ASTM D5185m	1700	● 848	1248	1303
Sulfur	ppm	ASTM D5185m	3800	● 1896	4170	4160
Acid Number (AN)	mg KOH/g	ASTM D8045	0.25	0.59	1.14	1.22
Visc @ 40°C	cSt	ASTM D445	59	57.9	45.8	46.0



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0868453
Lab Number : 06042654
Unique Number : 10803262
Test Package : CONST
Received : 21 Dec 2023
Tested : 26 Dec 2023
Diagnosed : 26 Dec 2023 - Don Baldrige

SHIMMICK CONSTRUCTION
 5535 TRAILHEAD DRIVE
 CHATTANOOGA, TN
 US 37415
 Contact: DANIEL LISELLA
 daniel.lisella@shimmick.com
 T:
 F:

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)