



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



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

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: Hydraulic system sample. 16335 hours)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0868286	WC0868453	WC0815006
Sample Date		Client Info		18 May 2024	04 Dec 2023	08 Aug 2023
Machine Age	hrs	Client Info		16335	15336	14298
Oil Age	hrs	Client Info		16233	0	0
Filter Age	hrs	Client Info		16335	0	0
Oil Changed		Client Info		Not Changed	Not Changed	Not Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ATTENTION	ABNORMAL

WEAR

Bearing and/or bushing wear is indicated. All other component wear rates are normal.

Iron	ppm	ASTM D5185m	>71	49	22	67
Chromium	ppm	ASTM D5185m	>11	0	20	0
Nickel	ppm	ASTM D5185m	>6	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>11	4	2	<1
Lead	ppm	ASTM D5185m	>13	▲ 20	0	▲ 42
Copper	ppm	ASTM D5185m	>21	▲ 34	5	▲ 47
Tin	ppm	ASTM D5185m	>5	2	0	3
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

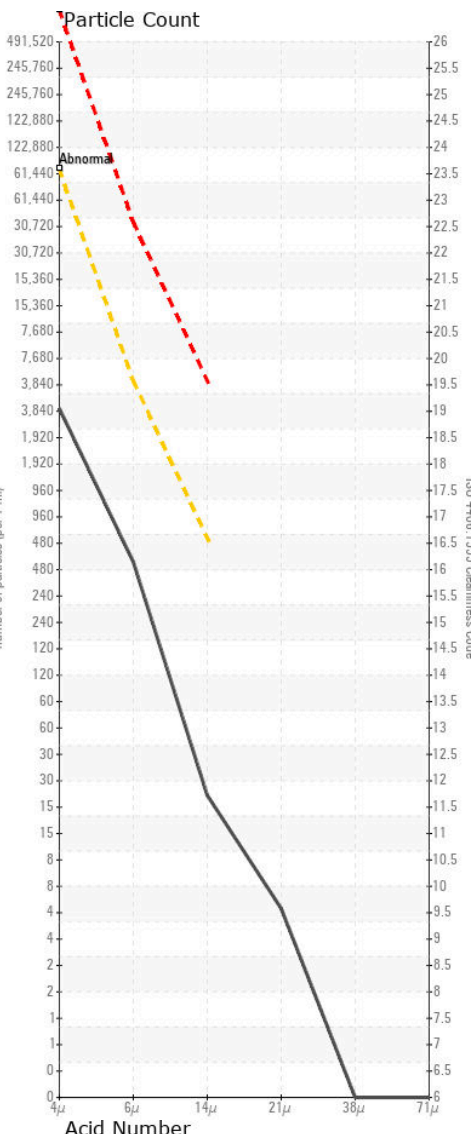
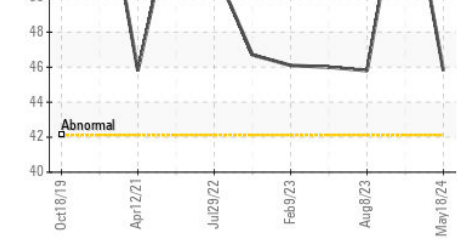
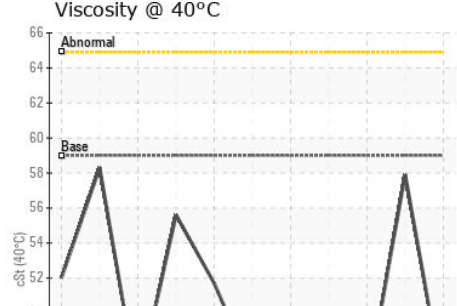
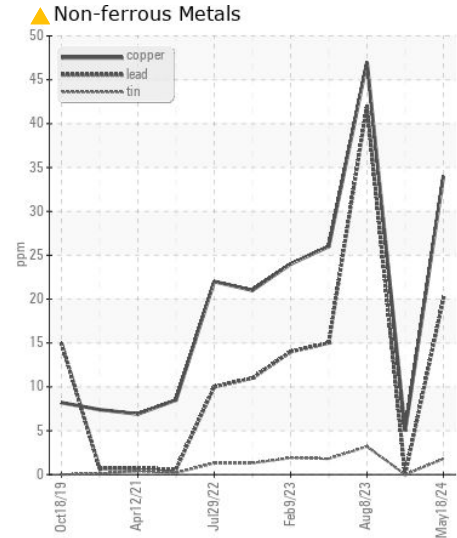
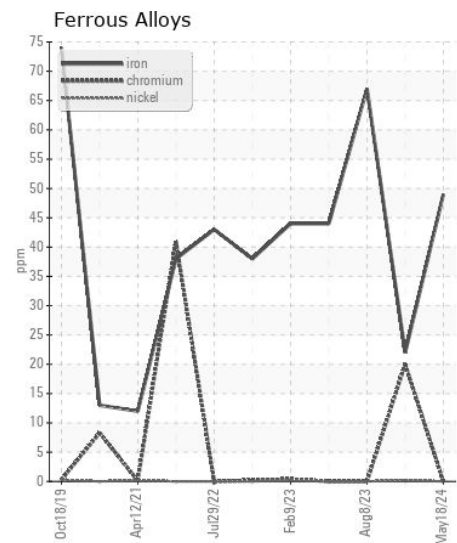
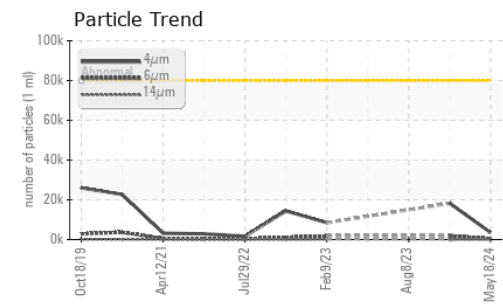
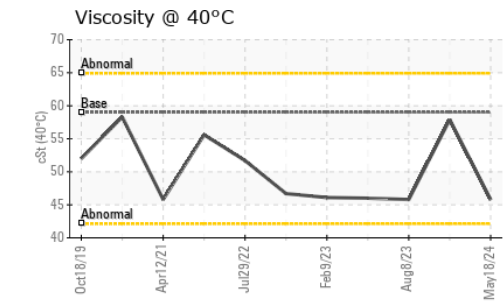
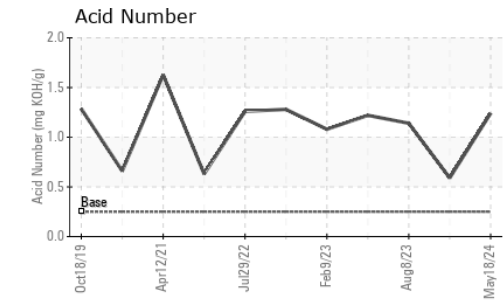
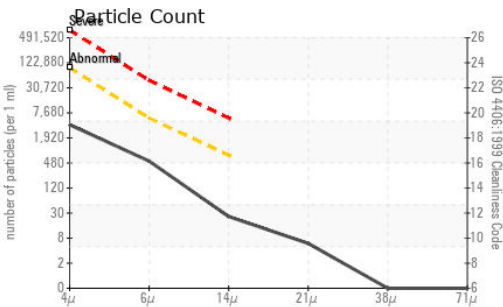
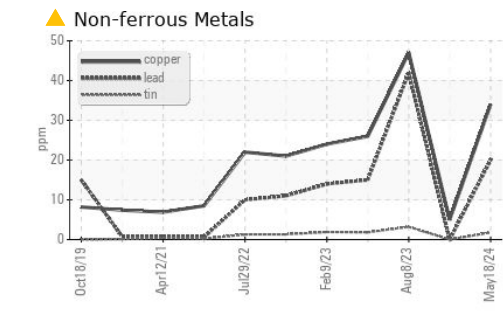
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>24	5	5	4
Potassium	ppm	ASTM D5185m	>20	0	0	0
Water		WC Method	>0.075	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>80000	3479	18264	---
Particles >6µm		ASTM D7647	>5000	467	1791	---
Particles >14µm		ASTM D7647	>640	22	33	---
Particles >21µm		ASTM D7647	>160	5	6	---
Particles >38µm		ASTM D7647	>40	0	0	---
Particles >71µm		ASTM D7647	>10	0	0	---
Oil Cleanliness		ISO 4406 (c)	>23/19/16	19/16/12	21/18/12	---
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	▲ MODER
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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>21	4	4	4
Boron	ppm	ASTM D5185m	100	2	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	0	<1	2	<1
Manganese	ppm	ASTM D5185m		1	0	<1
Magnesium	ppm	ASTM D5185m	0	67	● 2	90
Calcium	ppm	ASTM D5185m	4300	3270	● 527	3497
Phosphorus	ppm	ASTM D5185m	1400	1051	● 691	1034
Zinc	ppm	ASTM D5185m	1700	1207	● 848	1248
Sulfur	ppm	ASTM D5185m	3800	4050	● 1896	4170
Acid Number (AN)	mg KOH/g	ASTM D8045	0.25	1.24	0.59	1.14
Visc @ 40°C	cSt	ASTM D445	59	45.8	57.9	45.8



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0868286
Lab Number : 06187566
Unique Number : 11044318
Test Package : CONST
Received : 22 May 2024
Tested : 23 May 2024
Diagnosed : 24 May 2024 - Don Baldrige

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

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)