



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[16W16028]
 Machine Id
JOHN DEERE 350G 1ff350gxklf814889
 Component
Hydraulic System
 Fluid
HITACHI HYDRAULIC SUPER EX 46HN (51 GAL)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: 16W16028)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0196514	JR0141688	JR0175897
Sample Date		Client Info		17 Apr 2024	28 Sep 2023	10 Jul 2023
Machine Age	hrs	Client Info		4580	4368	0
Oil Age	hrs	Client Info		1760	8	0
Filter Age	hrs	Client Info		238	8	0
Oil Changed		Client Info		Not Chngd	Changed	Not Chngd
Filter Changed		Client Info		Not Chngd	N/A	Not Chngd
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	18	16	17
Iron	ppm	ASTM D5185m	>32	2	3	<1
Chromium	ppm	ASTM D5185m	>9	0	0	0
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>9	<1	2	1
Lead	ppm	ASTM D5185m	>28	0	0	0
Copper	ppm	ASTM D5185m	>50	4	2	0
Tin	ppm	ASTM D5185m	>5	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

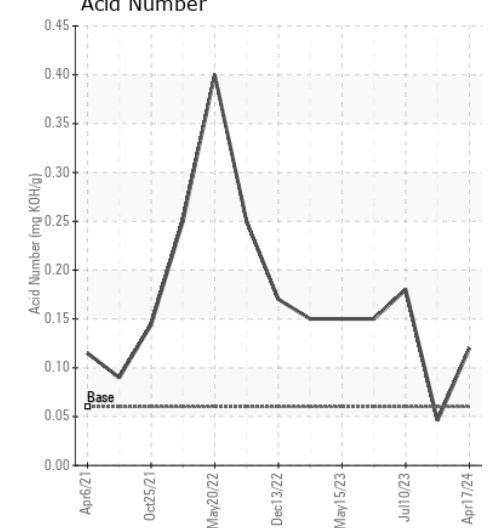
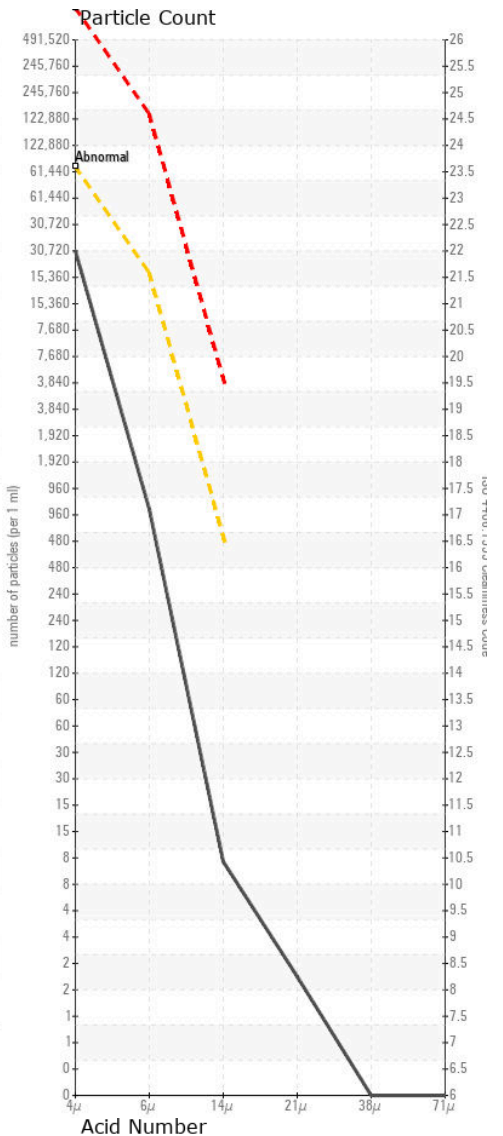
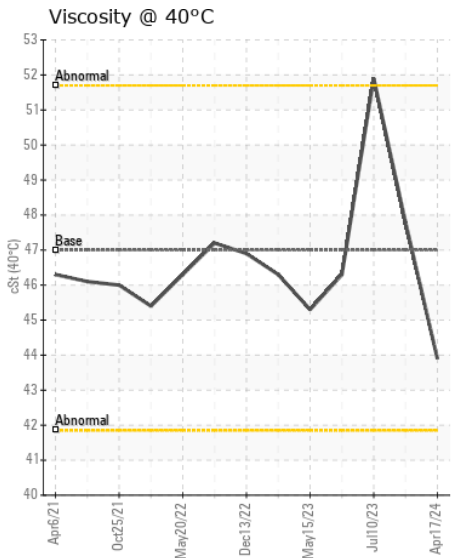
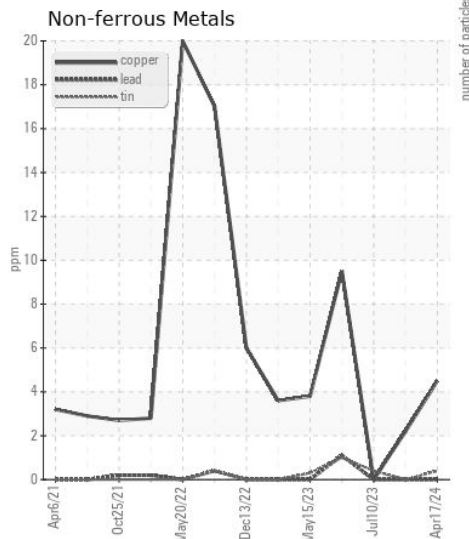
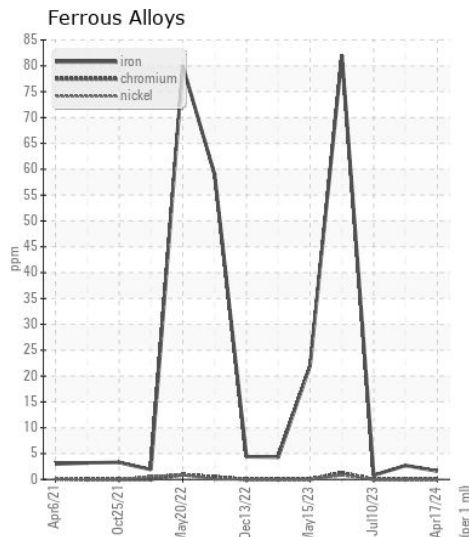
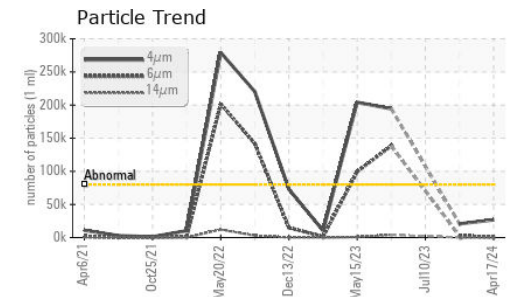
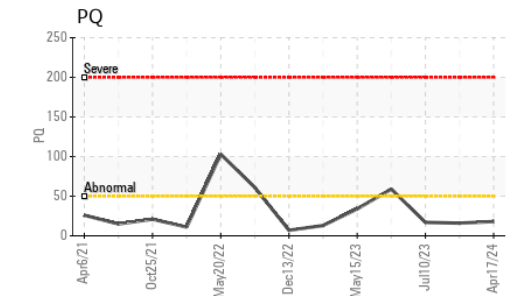
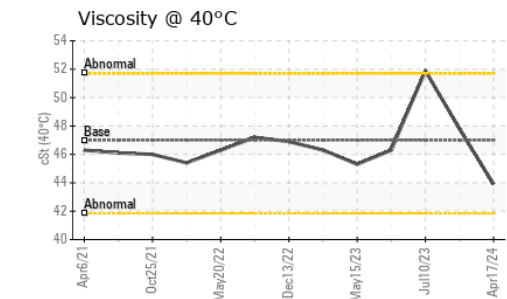
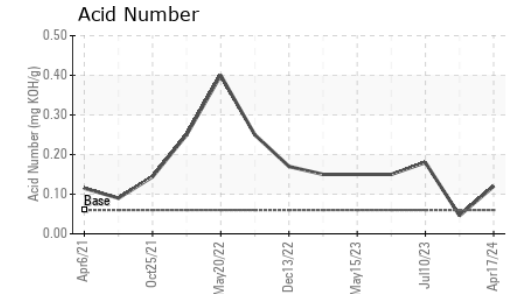
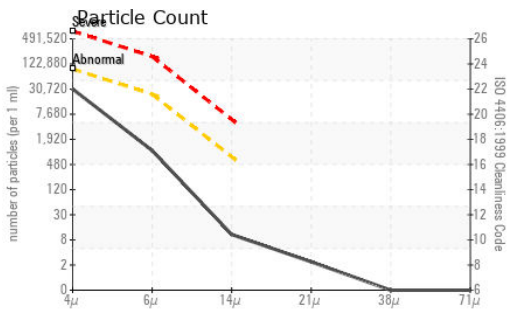
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>11	1	1	4
Potassium	ppm	ASTM D5185m	>20	2	0	<1
Water		WC Method	>0.075	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>80000	26731	20751	---
Particles >6µm		ASTM D7647	>20000	909	2529	---
Particles >14µm		ASTM D7647	>640	9	20	---
Particles >21µm		ASTM D7647	>160	2	6	---
Particles >38µm		ASTM D7647	>40	0	0	---
Particles >71µm		ASTM D7647	>10	0	0	---
Oil Cleanliness		ISO 4406 (c)	>23/21/16	22/17/10	22/19/11	---
Silt	scalar	*Visual	NONE	NONE	NONE	▲ MODER
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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>21	2	<1	0
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	1
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		5	0	7
Calcium	ppm	ASTM D5185m		26	15	374
Phosphorus	ppm	ASTM D5185m	827	536	641	601
Zinc	ppm	ASTM D5185m	0	44	10	4
Sulfur	ppm	ASTM D5185m	13	196	80	20
Acid Number (AN)	mg KOH/g	ASTM D8045	0.06	0.12	0.046	0.18
Visc @ 40°C	cSt	ASTM D445	47	43.9	47.79	51.9



Certificate L2367

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

Sample No. : JR0196514

Lab Number : 06152986

Unique Number : 10983064

Test Package : CONST (Additional Tests: PQ)

Received : 18 Apr 2024

Tested : 19 Apr 2024

Diagnosed : 22 Apr 2024 - Don Baldrige

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

113 CROWATAN ROAD

CASTLE HAYNE, NC

US 28429-5819

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