



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[W20635-WINDY HILL]
Machine Id
JOHN DEERE S780 1H0S780SKKT805788
Component
Hydraulic System
Fluid
JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0196593	JR0082084	---
Sample Date		Client Info		11 Jan 2024	29 Mar 2021	---
Machine Age	hrs	Client Info		978	554	---
Oil Age	hrs	Client Info		978	554	---
Filter Age	hrs	Client Info		978	554	---
Oil Changed		Client Info		Not Chngd	Not Chngd	---
Filter Changed		Client Info		Not Chngd	Changed	---
Sample Status				NORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185m	>20	15	9	---
Chromium	ppm	ASTM D5185m	>10	<1	<1	---
Nickel	ppm	ASTM D5185m	>10	0	0	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m		0	<1	---
Aluminum	ppm	ASTM D5185m	>10	2	<1	---
Lead	ppm	ASTM D5185m	>10	4	4	---
Copper	ppm	ASTM D5185m	>75	13	10	---
Tin	ppm	ASTM D5185m	>10	0	<1	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

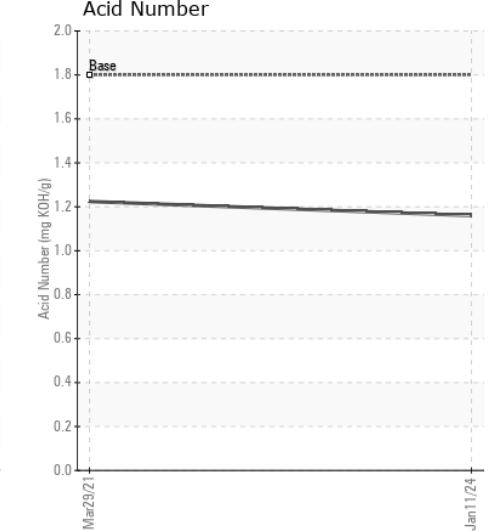
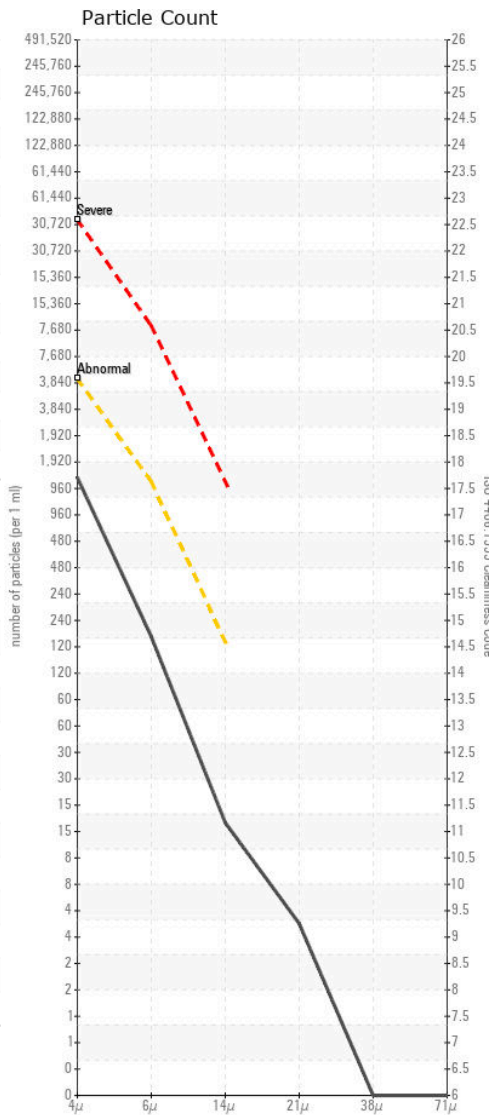
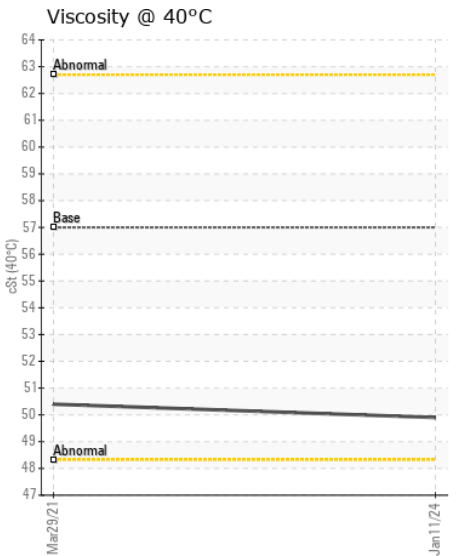
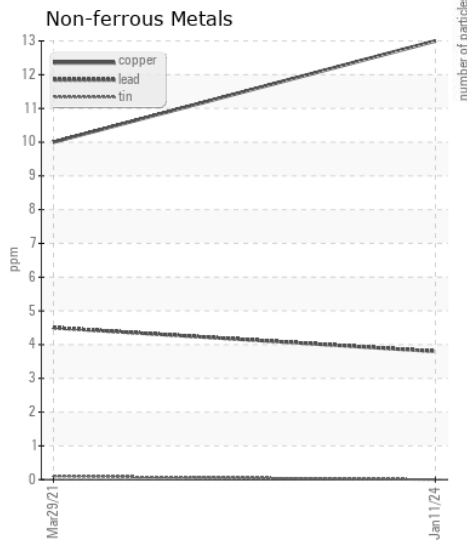
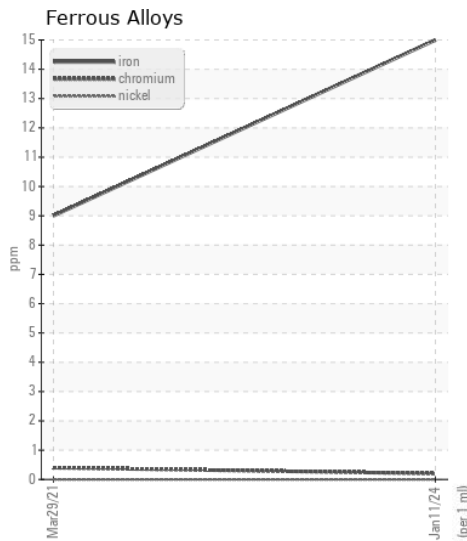
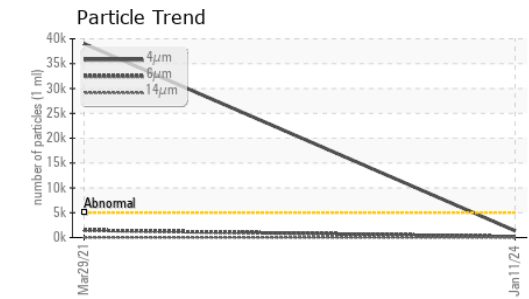
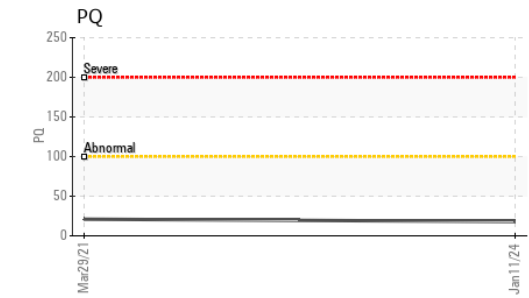
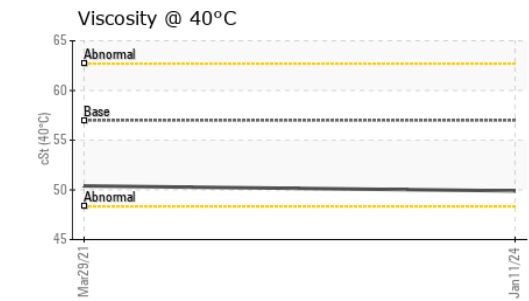
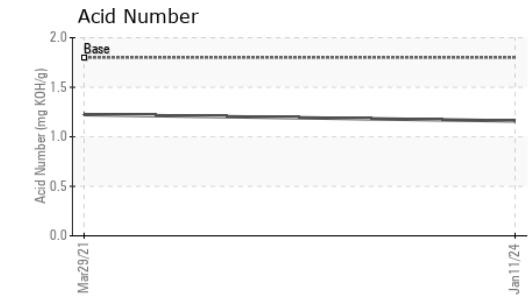
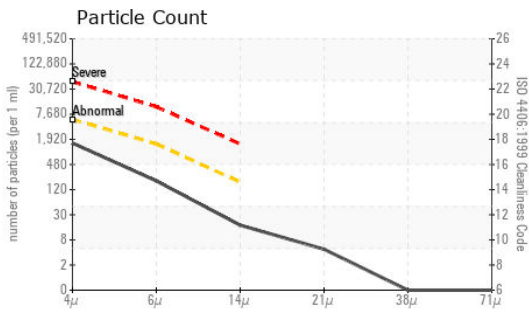
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	8	13	---
Potassium	ppm	ASTM D5185m	>20	5	3	---
Water		WC Method	>0.1	NEG	NEG	---
Particles >4µm		ASTM D7647	>5000	1372	▲ 39028	---
Particles >6µm		ASTM D7647	>1300	171	▲ 1484	---
Particles >14µm		ASTM D7647	>160	15	16	---
Particles >21µm		ASTM D7647	>40	4	6	---
Particles >38µm		ASTM D7647	>10	0	0	---
Particles >71µm		ASTM D7647	>3	0	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/15/11	▲ 22/18/11	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	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		0	4	---
Boron	ppm	ASTM D5185m	6	2	6	---
Barium	ppm	ASTM D5185m	0	0	0	---
Molybdenum	ppm	ASTM D5185m	0	<1	1	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m	145	109	100	---
Calcium	ppm	ASTM D5185m	3570	3727	3396	---
Phosphorus	ppm	ASTM D5185m	1290	1040	930	---
Zinc	ppm	ASTM D5185m	1640	1381	1186	---
Sulfur	ppm	ASTM D5185m		3902	2976	---
Acid Number (AN)	mg KOH/g	ASTM D8045	1.8	1.16	1.224	---
Visc @ 40°C	cSt	ASTM D445	57.0	49.9	50.4	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0196593 **Received** : 12 Jan 2024
Lab Number : 06060128 **Diagnosed** : 16 Jan 2024
Unique Number : 10831510 **Diagnostician** : Don Baldrige
Test Package : CONST (Additional Tests: PQ)

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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