



WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Area
[W20829-SWIFT CREEK]
 Machine Id
JOHN DEERE 524P 1DW524PAPMLT10519
 Component
Hydraulic System
 Fluid
JOHN DEERE HYDRAU (--- LTR)

RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0196640	JR0106519	---
Sample Date		Client Info		24 Jan 2024	10 Mar 2022	---
Machine Age	hrs	Client Info		1839	373	---
Oil Age	hrs	Client Info		1839	373	---
Filter Age	hrs	Client Info		1839	373	---
Oil Changed		Client Info		Not Changd	Not Changd	---
Filter Changed		Client Info		Not Changd	Not Changd	---
Sample Status				ATTENTION	ABNORMAL	---

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		11	16	---
Iron	ppm	ASTM D5185m	>20	1	1	---
Chromium	ppm	ASTM D5185m	>10	1	<1	---
Nickel	ppm	ASTM D5185m	>10	0	0	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m		0	<1	---
Aluminum	ppm	ASTM D5185m	>10	0	<1	---
Lead	ppm	ASTM D5185m	>10	<1	<1	---
Copper	ppm	ASTM D5185m	>75	<1	<1	---
Tin	ppm	ASTM D5185m	>10	0	0	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

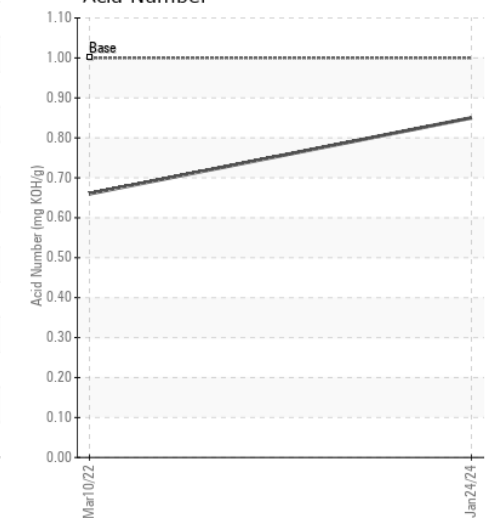
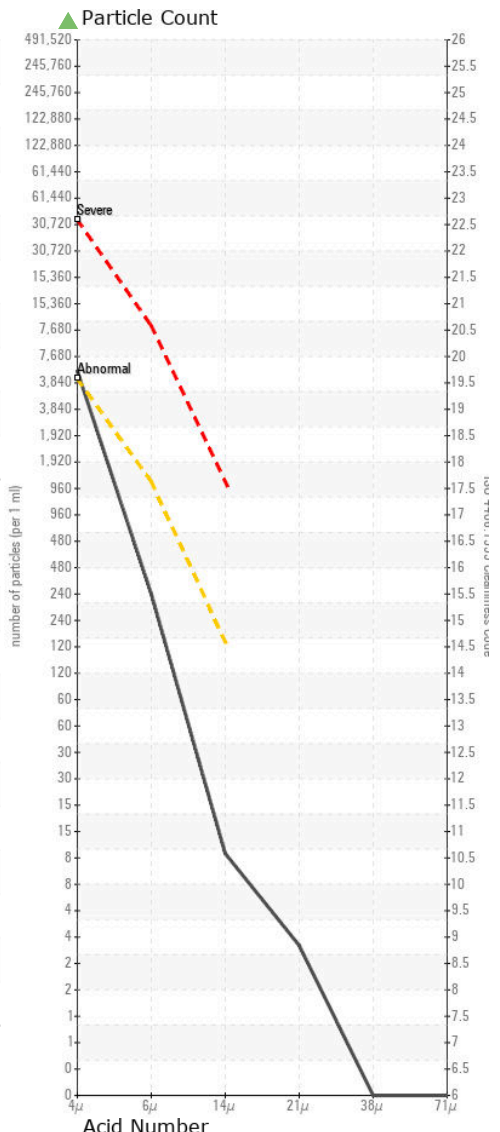
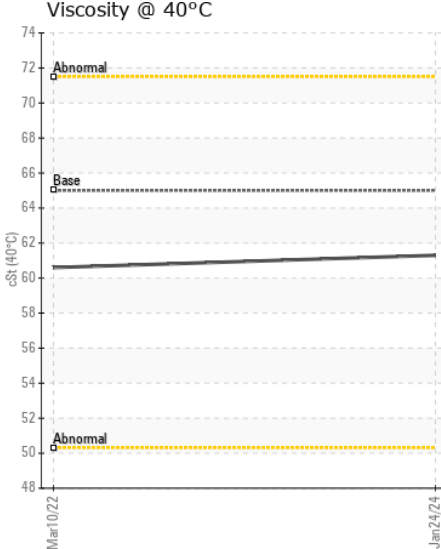
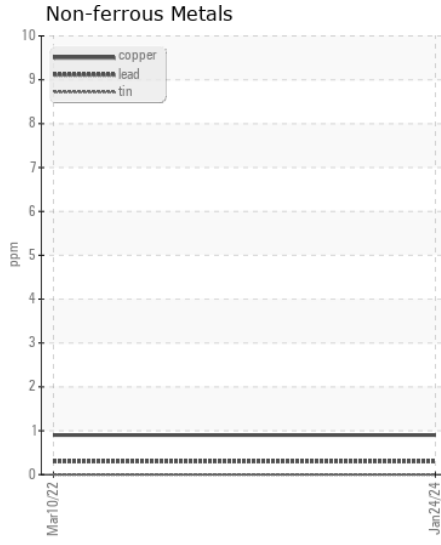
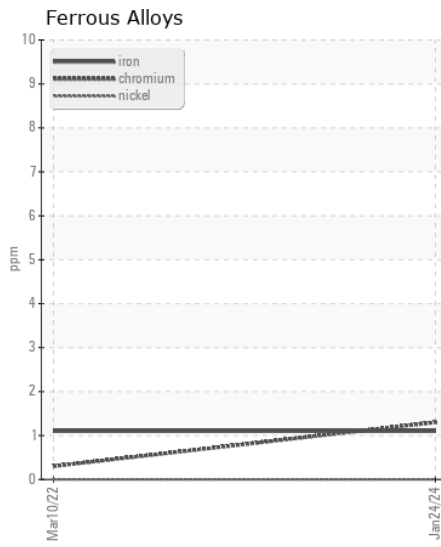
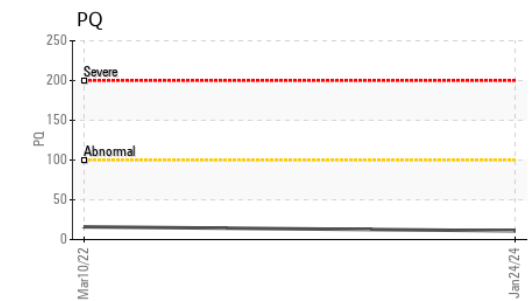
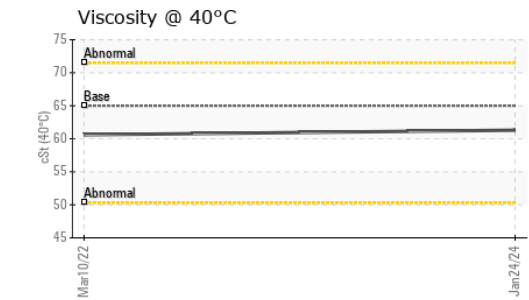
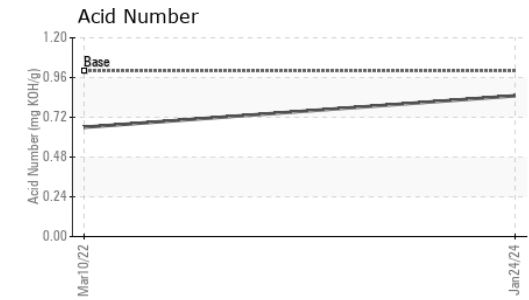
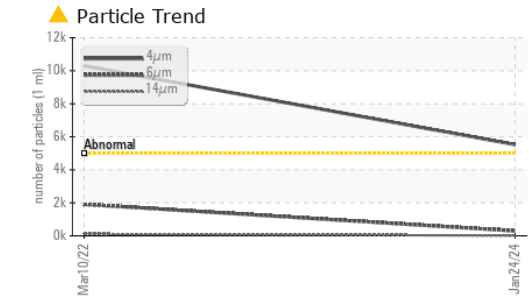
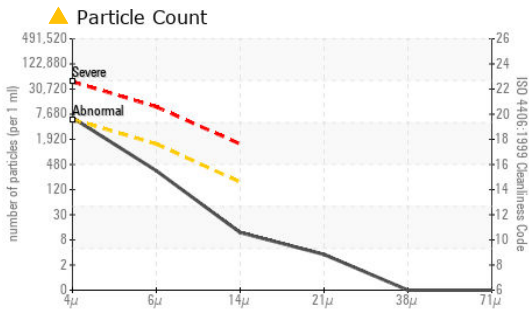
There is a light amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	<1	1	---
Potassium	ppm	ASTM D5185m	>20	5	6	---
Water		WC Method	>0.1	NEG	NEG	---
Particles >4µm		ASTM D7647	>5000	▲ 5523	▲ 10302	---
Particles >6µm		ASTM D7647	>1300	299	▲ 1905	---
Particles >14µm		ASTM D7647	>160	10	112	---
Particles >21µm		ASTM D7647	>40	3	16	---
Particles >38µm		ASTM D7647	>10	0	1	---
Particles >71µm		ASTM D7647	>3	0	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 20/15/10	▲ 21/18/14	---
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		2	<1	---
Boron	ppm	ASTM D5185m		0	<1	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		0	<1	---
Manganese	ppm	ASTM D5185m		0	0	---
Magnesium	ppm	ASTM D5185m		0	2	---
Calcium	ppm	ASTM D5185m	87	90	104	---
Phosphorus	ppm	ASTM D5185m	727	645	664	---
Zinc	ppm	ASTM D5185m	900	933	900	---
Sulfur	ppm	ASTM D5185m	1500	1789	1499	---
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.85	0.66	---
Visc @ 40°C	cSt	ASTM D445	65	61.3	60.6	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0196640 **Received** : 30 Jan 2024
Lab Number : 06073809 **Diagnosed** : 31 Jan 2024
Unique Number : 10855900 **Diagnostician** : Wes Davis
Test Package : CONST (Additional Tests: PQ)

JRE - BURKEVILLE
 510 WEST COLONIAL DR
 BURKEVILLE, VA
 US 23922
 Contact: BRANDON BOLLING
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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)