



WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
[44640]
 Machine Id
JOHN DEERE 325G 1T0325GKCMJ390362
 Component
Hydraulic System
 Fluid
JOHN DEERE HYDRAU (--- QTS)

RECOMMENDATION

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0203355	JR0176408	JR0157466
Sample Date		Client Info		13 Feb 2024	06 Jul 2023	11 Jan 2023
Machine Age	hrs	Client Info		2437	1930	1437
Oil Age	hrs	Client Info		507	1449	481
Filter Age	hrs	Client Info		0	1449	481
Oil Changed		Client Info		Not Changed	Changed	Not Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185m	>20	14	15	19
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	1	3	3
Lead	ppm	ASTM D5185m	>10	<1	<1	<1
Copper	ppm	ASTM D5185m	>75	6	7	10
Tin	ppm	ASTM D5185m	>10	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

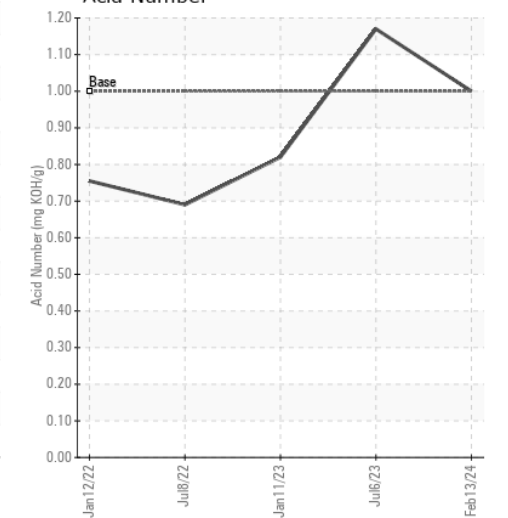
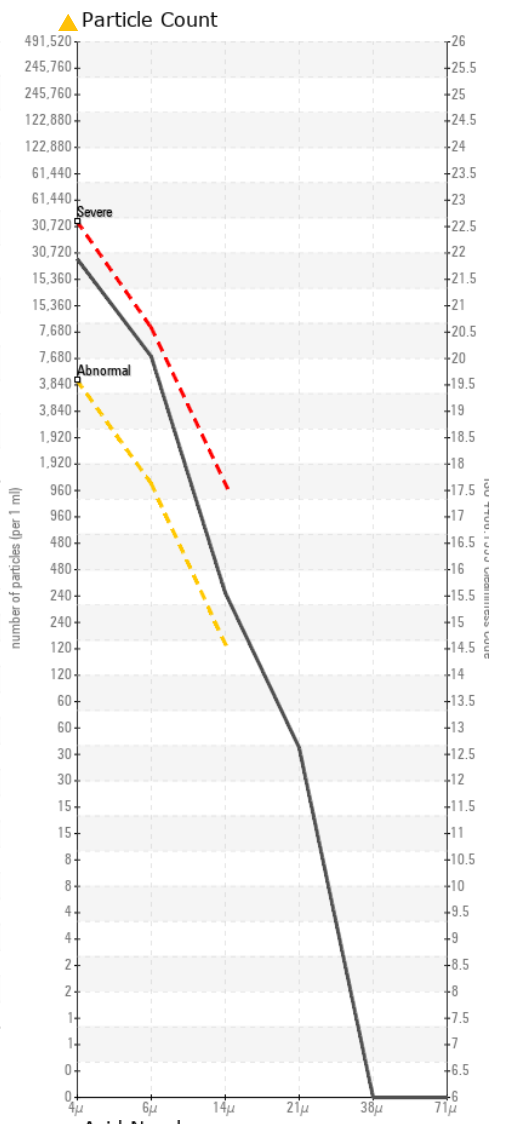
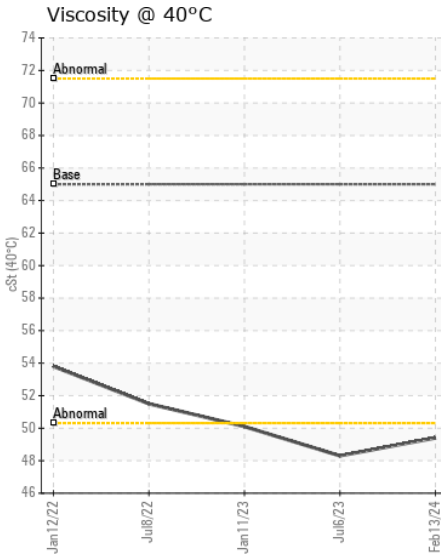
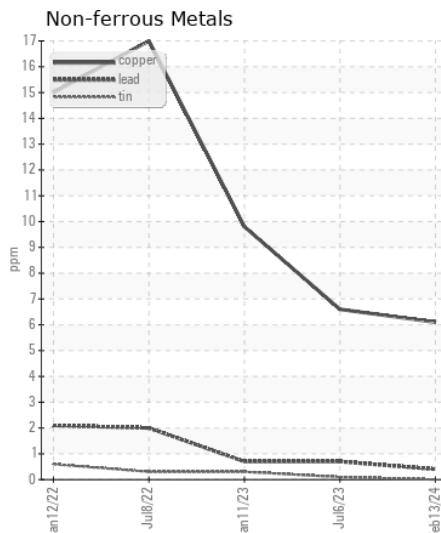
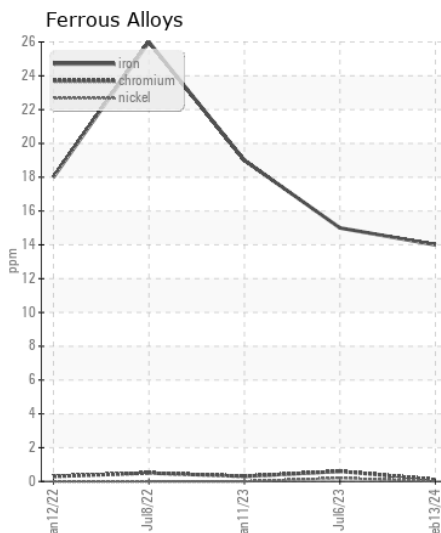
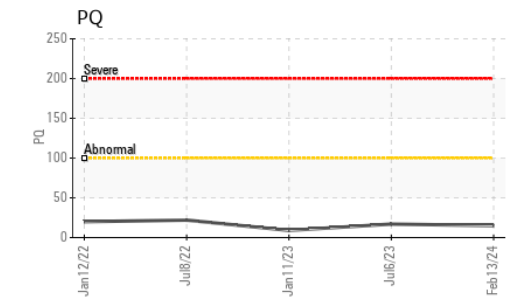
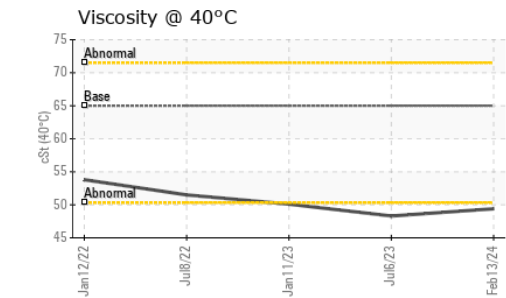
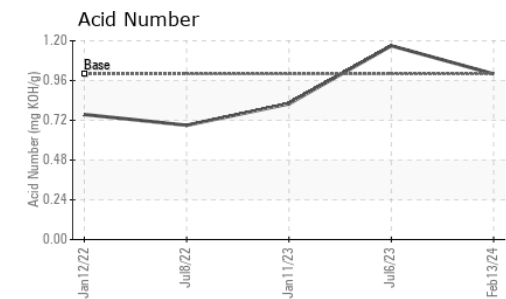
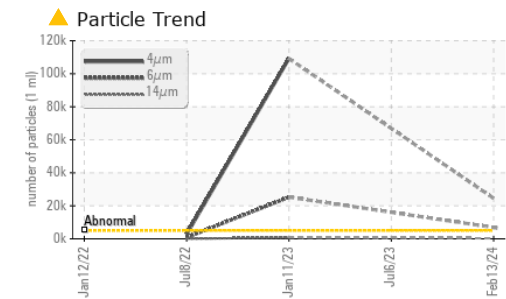
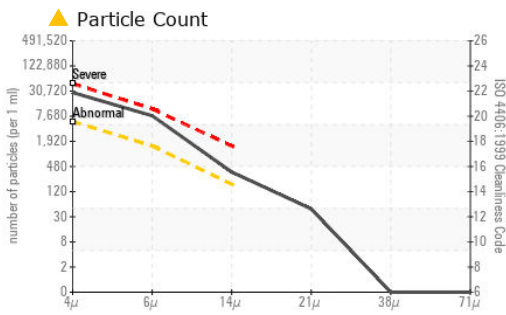
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	9	12	7
Potassium	ppm	ASTM D5185m	>20	2	2	0
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	▲ 24549	---	▲ 109192
Particles >6µm		ASTM D7647	>1300	▲ 6865	---	▲ 25269
Particles >14µm		ASTM D7647	>160	▲ 312	---	▲ 705
Particles >21µm		ASTM D7647	>40	41	---	▲ 287
Particles >38µm		ASTM D7647	>10	0	---	▲ 26
Particles >71µm		ASTM D7647	>3	0	---	1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 22/20/15	---	▲ 24/22/17
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	▲ MODER	LIGHT
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	>0.1	NEG	NEG	NEG

FLUID CONDITION

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Sodium	ppm	ASTM D5185m		0	1	1
Boron	ppm	ASTM D5185m		6	7	3
Barium	ppm	ASTM D5185m		2	0	0
Molybdenum	ppm	ASTM D5185m		5	6	4
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		18	21	15
Calcium	ppm	ASTM D5185m	87	1091	1673	835
Phosphorus	ppm	ASTM D5185m	727	663	817	638
Zinc	ppm	ASTM D5185m	900	835	1041	855
Sulfur	ppm	ASTM D5185m	1500	2382	2963	2913
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	1.00	1.17	0.82
Visc @ 40°C	cSt	ASTM D445	65	49.4	48.3	50.1



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0203355 **Received** : 14 Feb 2024
Lab Number : 06089507 **Tested** : 15 Feb 2024
Unique Number : 10876952 **Diagnosed** : 15 Feb 2024 - Wes Davis
Test Package : CONST (Additional Tests: PQ)

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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)