



Machine Id
JOHN DEERE 324G 1T0324GKLJJ333564
 Component
Hydraulic System
 Fluid
JOHN DEERE HYDRAU (--- GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0183683	---	---
Sample Date		Client Info		04 Jan 2024	---	---
Machine Age	hrs	Client Info		3624	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				ABNORMAL	---	---

WEAR

The iron level is abnormal. All other component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185m	>20	▲ 37	---	---
Chromium	ppm	ASTM D5185m	>10	4	---	---
Nickel	ppm	ASTM D5185m	>10	0	---	---
Titanium	ppm	ASTM D5185m		<1	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>10	2	---	---
Lead	ppm	ASTM D5185m	>10	2	---	---
Copper	ppm	ASTM D5185m	>75	15	---	---
Tin	ppm	ASTM D5185m	>10	<1	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

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

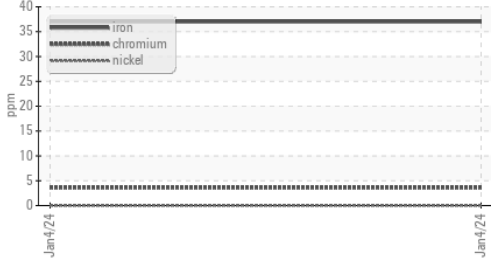
Test	UOM	Method	Limit/Abn	Current	History1	History2
Silicon	ppm	ASTM D5185m	>20	2	---	---
Potassium	ppm	ASTM D5185m	>20	2	---	---
Water		WC Method	>0.1	NEG	---	---
Particles >4µm		ASTM D7647	>5000	▲ 7979	---	---
Particles >6µm		ASTM D7647	>1300	1029	---	---
Particles >14µm		ASTM D7647	>160	148	---	---
Particles >21µm		ASTM D7647	>40	46	---	---
Particles >38µm		ASTM D7647	>10	2	---	---
Particles >71µm		ASTM D7647	>3	0	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 20/17/14	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.1	NEG	---	---

FLUID CONDITION

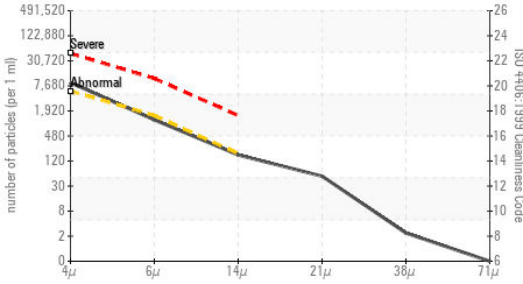
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sodium	ppm	ASTM D5185m		0	---	---
Boron	ppm	ASTM D5185m		<1	---	---
Barium	ppm	ASTM D5185m		1	---	---
Molybdenum	ppm	ASTM D5185m		1	---	---
Manganese	ppm	ASTM D5185m		<1	---	---
Magnesium	ppm	ASTM D5185m		13	---	---
Calcium	ppm	ASTM D5185m	87	95	---	---
Phosphorus	ppm	ASTM D5185m	727	519	---	---
Zinc	ppm	ASTM D5185m	900	616	---	---
Sulfur	ppm	ASTM D5185m	1500	1708	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.49	---	---
Visc @ 40°C	cSt	ASTM D445	65	37.3	---	---

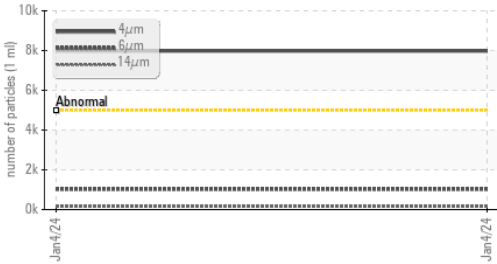
▲ Ferrous Alloys



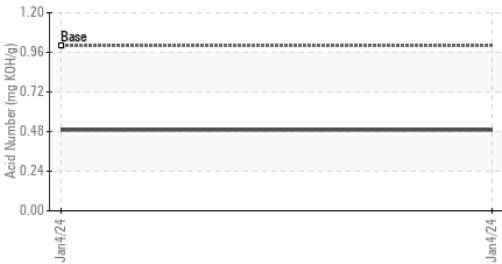
▲ Particle Count



▲ Particle Trend



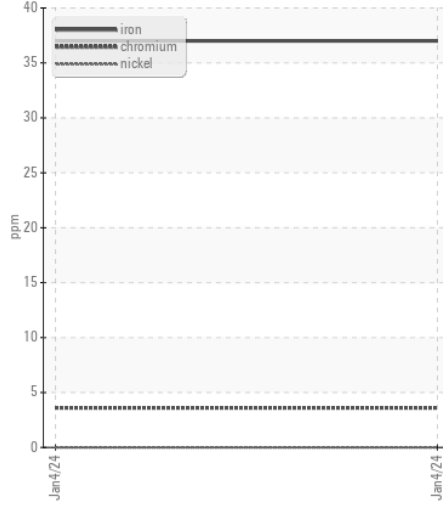
Acid Number



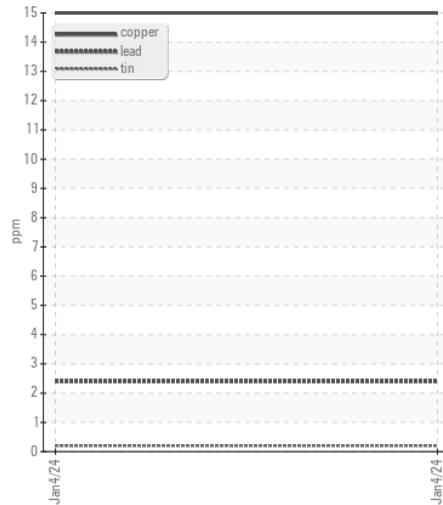
Viscosity @ 40°C



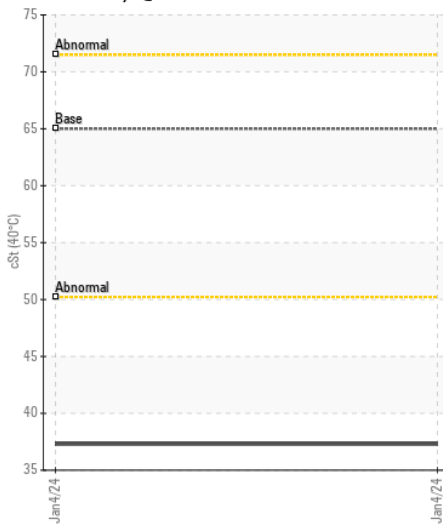
▲ Ferrous Alloys



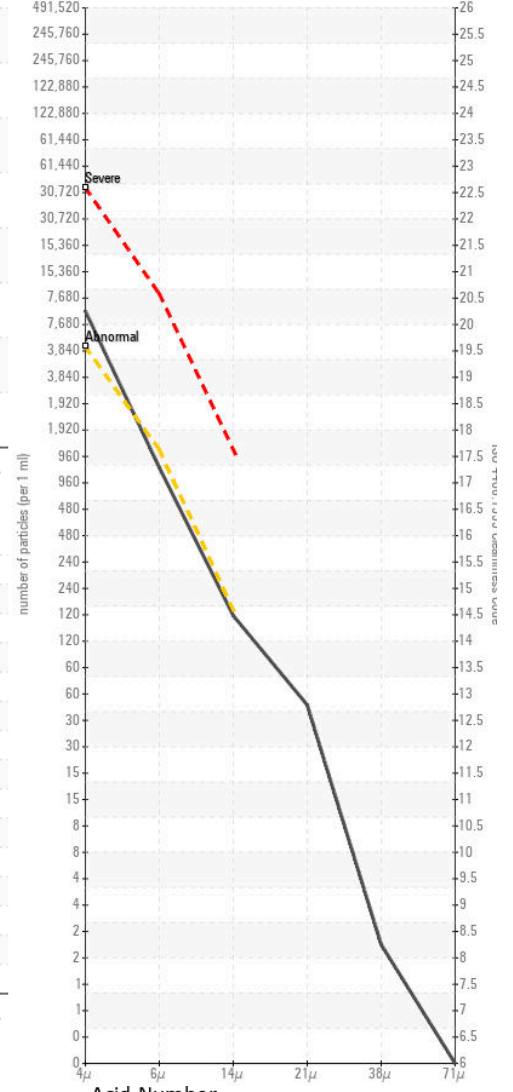
Non-ferrous Metals



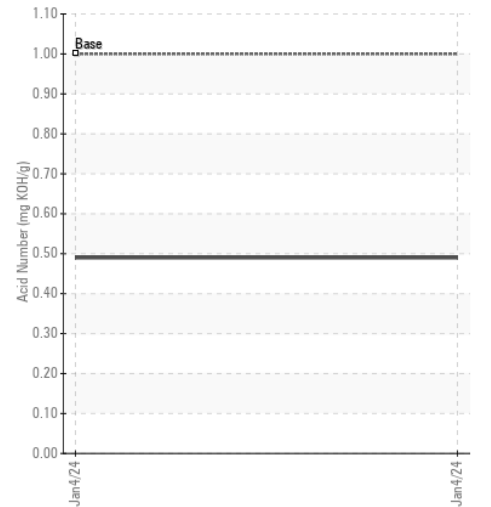
Viscosity @ 40°C



▲ Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0183683 **Received** : 18 Jan 2024
Lab Number : 06064989 **Diagnosed** : 22 Jan 2024
Unique Number : 10836371 **Diagnostician** : Don Baldrige
Test Package : CONST (Additional Tests: PQ)

JRE - HARRISONBURG
 1332 GARBERS CHURCH RD
 HARRISONBURG, VA
 US 22801

Contact: ETHAN SHEETS
 ETHAN.SHEETS@JAMESRIVEREQUIPMENT.COM

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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F: