James River Equipment

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 317G 1T0317GJTNJ421327
Component
Hydraulic System
Fluid
{not provided} (6 GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

WEAR

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

CONTAMINATION

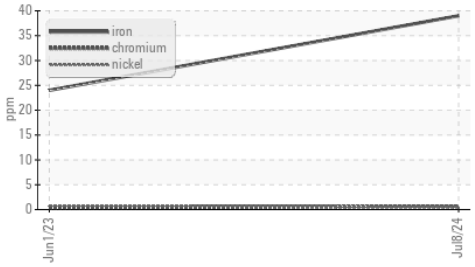
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

FLUID CONDITION

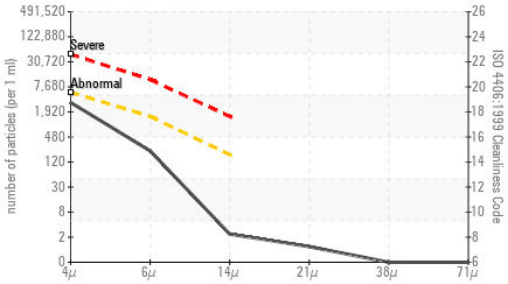
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0213619	JR0173229	---
Sample Date		Client Info		08 Jul 2024	01 Jun 2023	---
Machine Age	hrs	Client Info		979	550	---
Oil Age	hrs	Client Info		0	550	---
Filter Age	hrs	Client Info		0	550	---
Oil Changed		Client Info		N/A	Not Changd	---
Filter Changed		Client Info		N/A	Not Changd	---
Sample Status				ABNORMAL	NORMAL	---
PQ		ASTM D8184		25	18	---
Iron	ppm	ASTM D5185m	>20	▲ 39	24	---
Chromium	ppm	ASTM D5185m	>10	<1	<1	---
Nickel	ppm	ASTM D5185m	>10	<1	<1	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m		<1	<1	---
Aluminum	ppm	ASTM D5185m	>10	4	2	---
Lead	ppm	ASTM D5185m	>10	2	3	---
Copper	ppm	ASTM D5185m	>75	20	15	---
Tin	ppm	ASTM D5185m	>10	<1	<1	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	LIGHT	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>20	8	3	---
Potassium	ppm	ASTM D5185m	>20	4	4	---
Water		WC Method	>0.1	NEG	NEG	---
Particles >4µm		ASTM D7647	>5000	2818	306	---
Particles >6µm		ASTM D7647	>1300	196	37	---
Particles >14µm		ASTM D7647	>160	2	6	---
Particles >21µm		ASTM D7647	>40	1	1	---
Particles >38µm		ASTM D7647	>10	0	0	---
Particles >71µm		ASTM D7647	>3	0	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	19/15/9	15/12/10	---
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	---
Sodium	ppm	ASTM D5185m		<1	2	---
Boron	ppm	ASTM D5185m		0	0	---
Barium	ppm	ASTM D5185m		2	0	---
Molybdenum	ppm	ASTM D5185m		<1	<1	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m		4	3	---
Calcium	ppm	ASTM D5185m		132	117	---
Phosphorus	ppm	ASTM D5185m		674	681	---
Zinc	ppm	ASTM D5185m		877	915	---
Sulfur	ppm	ASTM D5185m		1794	1693	---
Acid Number (AN)	mg KOH/g	ASTM D8045		0.80	0.70	---
Visc @ 40°C	cSt	ASTM D445		48.4	51.2	---

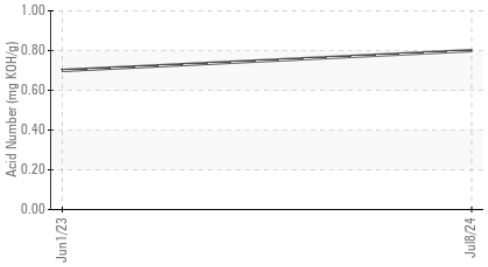
Ferrous Alloys



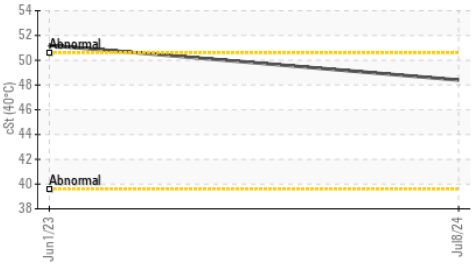
Particle Count



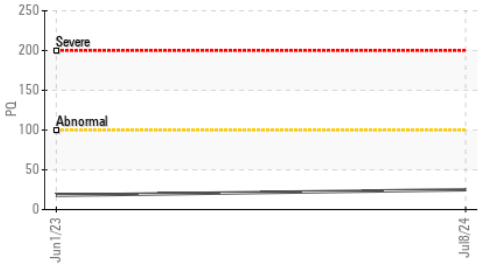
Acid Number



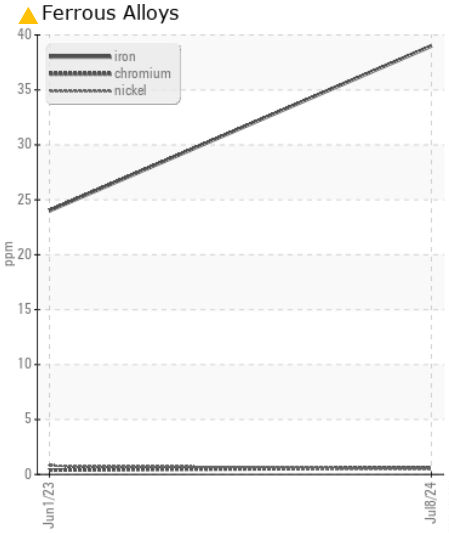
Viscosity @ 40°C



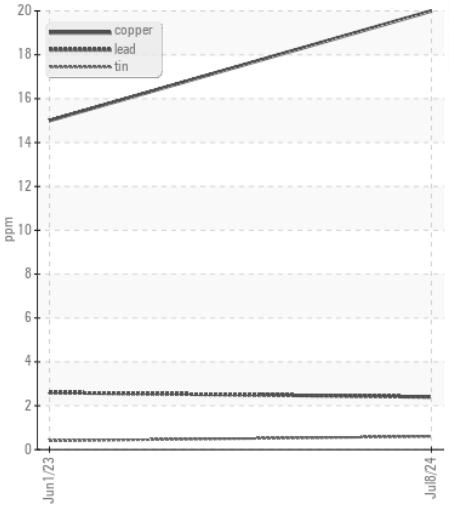
PQ



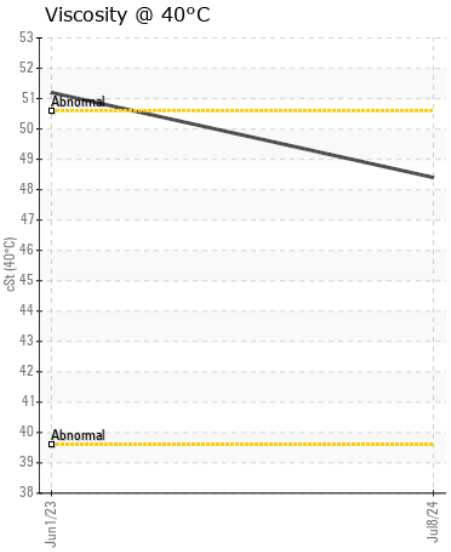
Ferrous Alloys



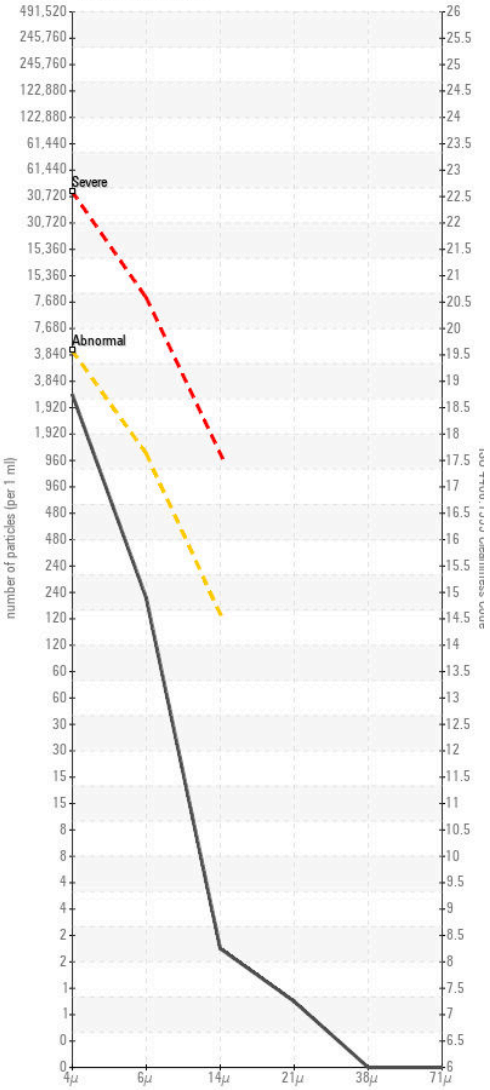
Non-ferrous Metals



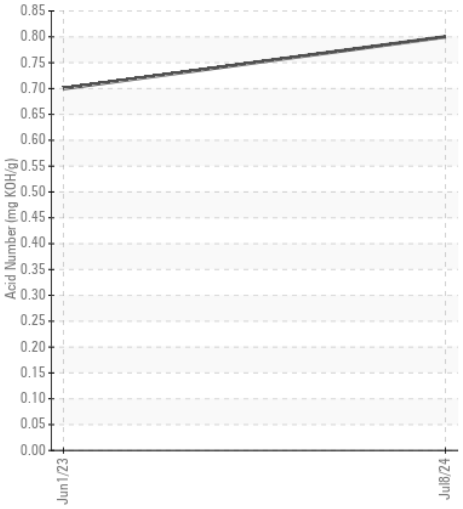
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0213619 **Received** : 09 Jul 2024
Lab Number : 06231428 **Tested** : 10 Jul 2024
Unique Number : 11114921 **Diagnosed** : 10 Jul 2024 - Don Baldridge
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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