James River Equipment

OIL ANALYSIS REPORT

WEAR	MARGINAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 317G 1T0317GJJNJ425527
Component
Hydraulic System
Fluid
JOHN DEERE HYDRAU (--- GAL)

RECOMMENDATION

We recommend an early resample to monitor this condition.

WEAR

Iron ppm levels are marginal. All other component wear rates are normal.

CONTAMINATION

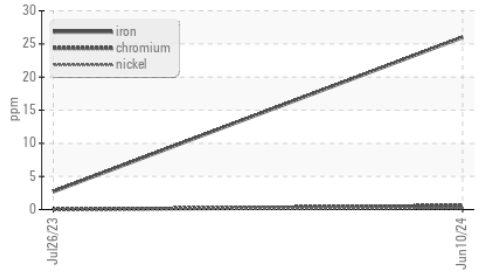
The water content is negligible. There is no indication of any contamination in the oil.

FLUID CONDITION

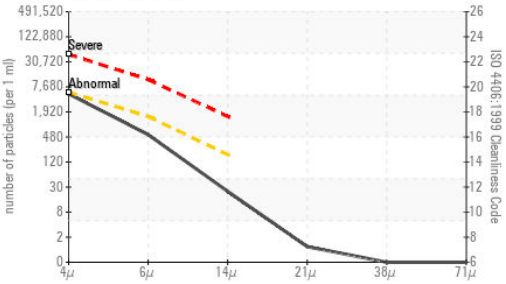
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0195519	JR0169002	---
Sample Date		Client Info		10 Jun 2024	26 Jul 2023	---
Machine Age	hrs	Client Info		527	65	---
Oil Age	hrs	Client Info		0	65	---
Filter Age	hrs	Client Info		0	65	---
Oil Changed		Client Info		Not Changd	Not Changd	---
Filter Changed		Client Info		Not Changd	Not Changd	---
Sample Status				MARGINAL	ABNORMAL	---
PQ		ASTM D8184		23	11	---
Iron	ppm	ASTM D5185m	>20	▲ 26	3	---
Chromium	ppm	ASTM D5185m	>10	<1	0	---
Nickel	ppm	ASTM D5185m	>10	<1	0	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>10	2	0	---
Lead	ppm	ASTM D5185m	>10	2	0	---
Copper	ppm	ASTM D5185m	>75	16	10	---
Tin	ppm	ASTM D5185m	>10	0	0	---
Vanadium	ppm	ASTM D5185m		0	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>20	6	9	---
Potassium	ppm	ASTM D5185m	>20	3	2	---
Water		WC Method	>0.1	NEG	NEG	---
Particles >4µm		ASTM D7647	>5000	4561	▲ 10950	---
Particles >6µm		ASTM D7647	>1300	480	▲ 4013	---
Particles >14µm		ASTM D7647	>160	21	▲ 745	---
Particles >21µm		ASTM D7647	>40	1	▲ 240	---
Particles >38µm		ASTM D7647	>10	0	8	---
Particles >71µm		ASTM D7647	>3	0	1	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	19/16/12	▲ 21/19/17	---
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		5	0	---
Barium	ppm	ASTM D5185m		2	0	---
Molybdenum	ppm	ASTM D5185m		<1	0	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m		8	5	---
Calcium	ppm	ASTM D5185m	87	456	89	---
Phosphorus	ppm	ASTM D5185m	727	674	629	---
Zinc	ppm	ASTM D5185m	900	872	851	---
Sulfur	ppm	ASTM D5185m	1500	2057	2003	---
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.66	0.70	---
Visc @ 40°C	cSt	ASTM D445	65	50.0	55.9	---

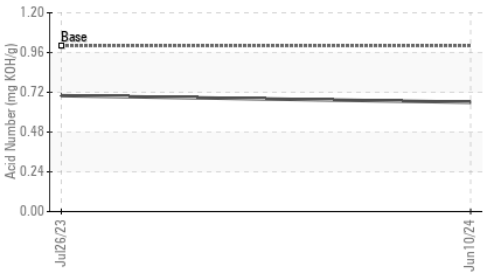
Ferrous Alloys



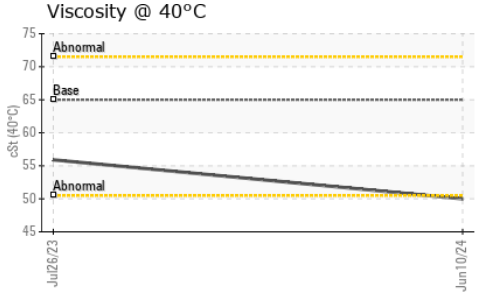
Particle Count



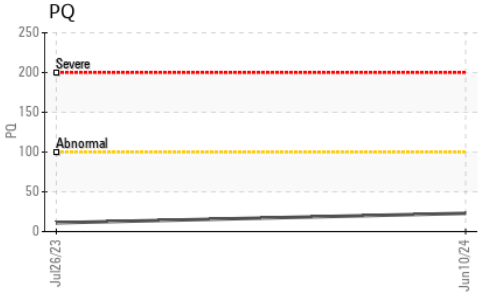
Acid Number



Viscosity @ 40°C



PQ



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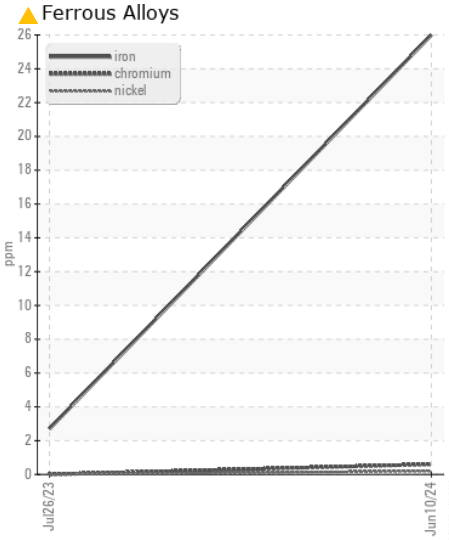
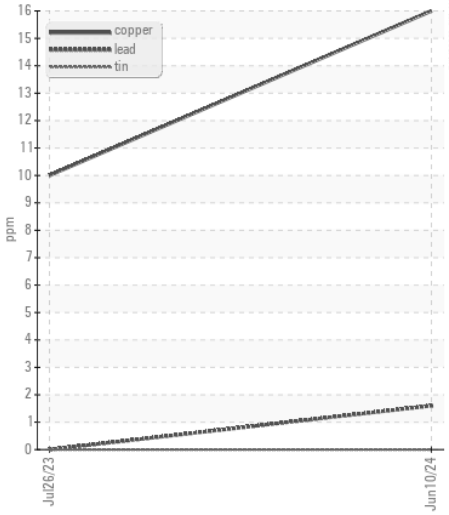
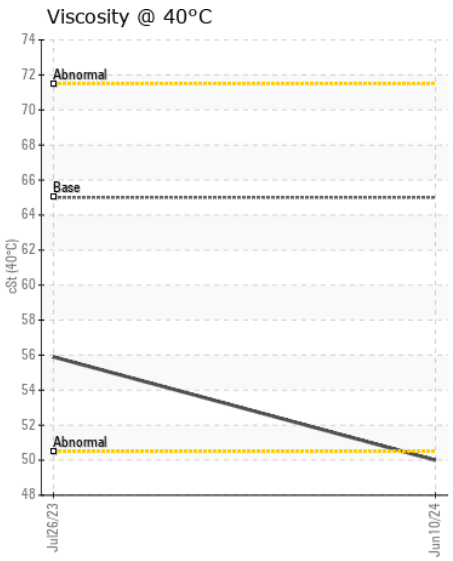


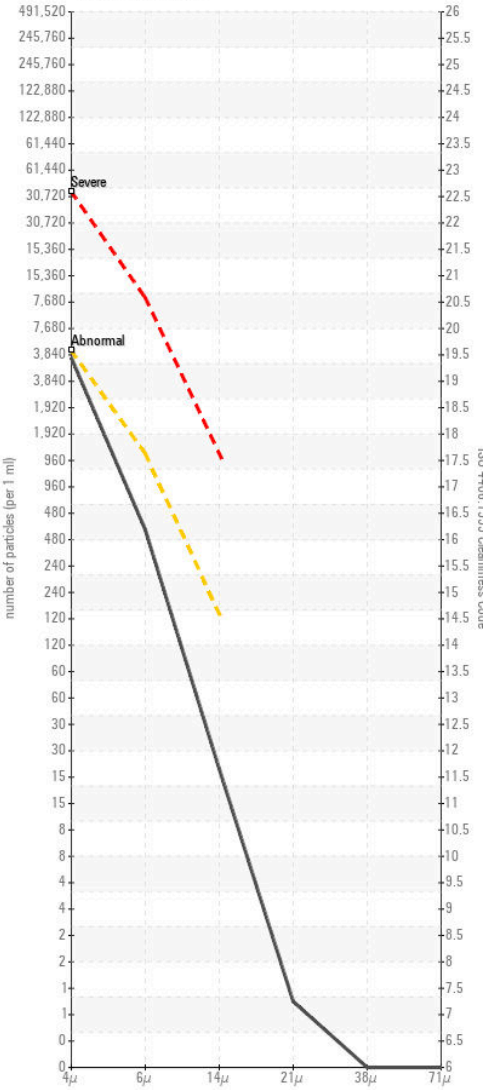
Non-ferrous Metals



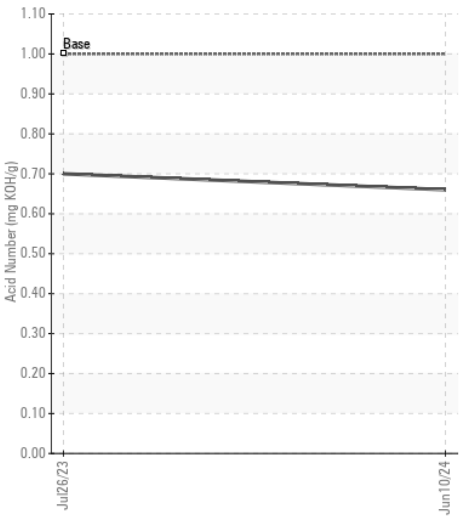
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0195519
Lab Number : 06210684
Unique Number : 11083548
Test Package : CONST (Additional Tests: PQ)

Received : 14 Jun 2024
Tested : 18 Jun 2024
Diagnosed : 18 Jun 2024 - Angela Borella

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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