James River Equipment

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 325G 1T0325GKVMJ408397
Component
Hydraulic System
Fluid
JOHN DEERE HYDRAU (32 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

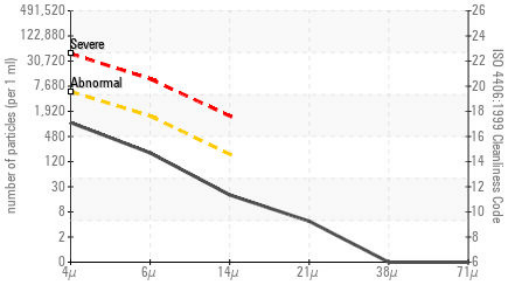
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

FLUID CONDITION

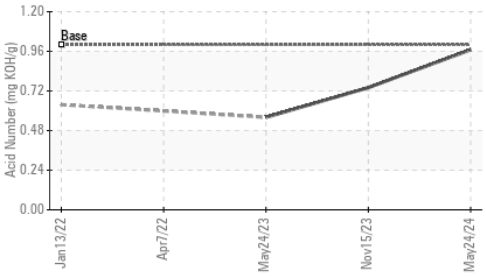
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0218091	JR0192187	JR0160123
Sample Date		Client Info		24 May 2024	15 Nov 2023	24 May 2023
Machine Age	hrs	Client Info		2958	2444	1932
Oil Age	hrs	Client Info		2446	2444	967
Filter Age	hrs	Client Info		0	2444	0
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ATTENTION	ATTENTION
PQ		ASTM D8184		25	20	12
Iron	ppm	ASTM D5185m	>20	20	15	11
Chromium	ppm	ASTM D5185m	>10	4	3	2
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		1	0	0
Aluminum	ppm	ASTM D5185m	>10	1	<1	0
Lead	ppm	ASTM D5185m	>10	1	0	<1
Copper	ppm	ASTM D5185m	>75	6	4	6
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>20	7	4	2
Potassium	ppm	ASTM D5185m	>20	2	0	1
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	908	5302	22976
Particles >6µm		ASTM D7647	>1300	171	1316	7268
Particles >14µm		ASTM D7647	>160	17	112	296
Particles >21µm		ASTM D7647	>40	4	18	63
Particles >38µm		ASTM D7647	>10	0	0	2
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/15/11	20/18/14	22/20/15
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
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
Sodium	ppm	ASTM D5185m		0	0	<1
Boron	ppm	ASTM D5185m		28	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		9	<1	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		32	8	4
Calcium	ppm	ASTM D5185m	87	1154	600	233
Phosphorus	ppm	ASTM D5185m	727	699	569	401
Zinc	ppm	ASTM D5185m	900	822	708	492
Sulfur	ppm	ASTM D5185m	1500	2703	1929	1878
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.97	0.74	0.56
Visc @ 40°C	cSt	ASTM D445	65	49.9	50.0	49.1

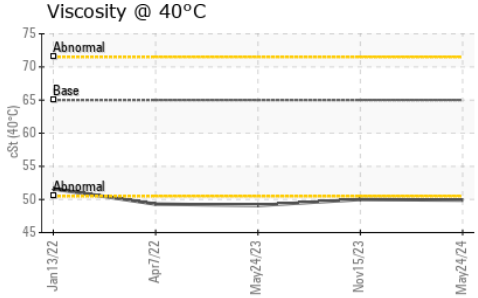
Particle Count



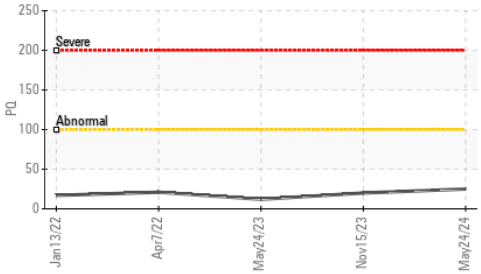
Acid Number



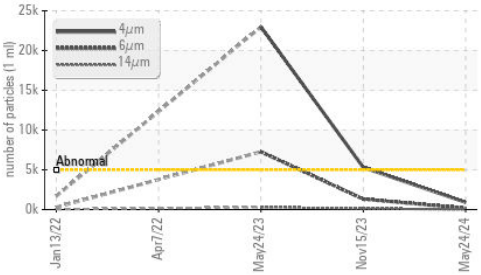
Viscosity @ 40°C



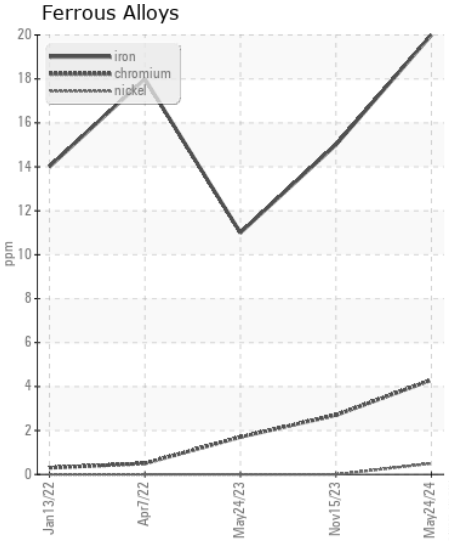
PQ



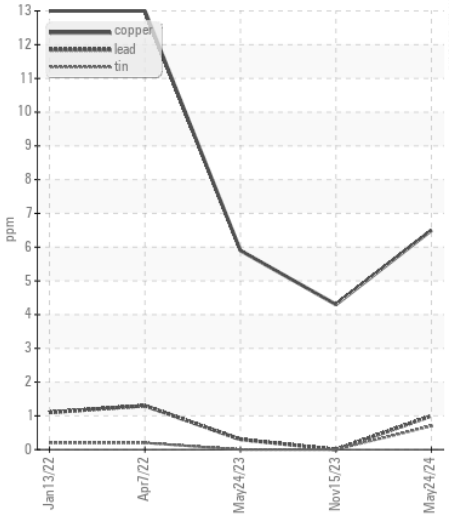
Particle Trend



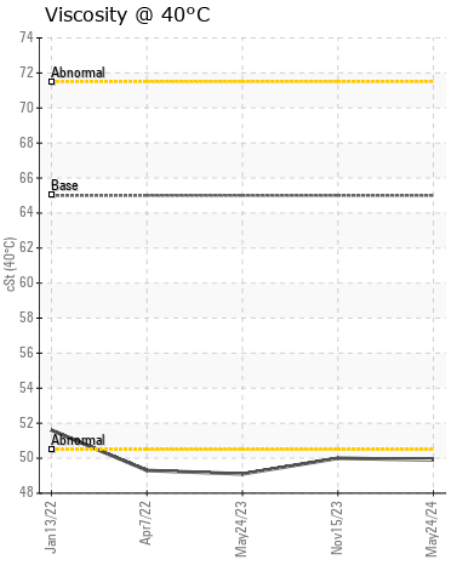
Ferrous Alloys



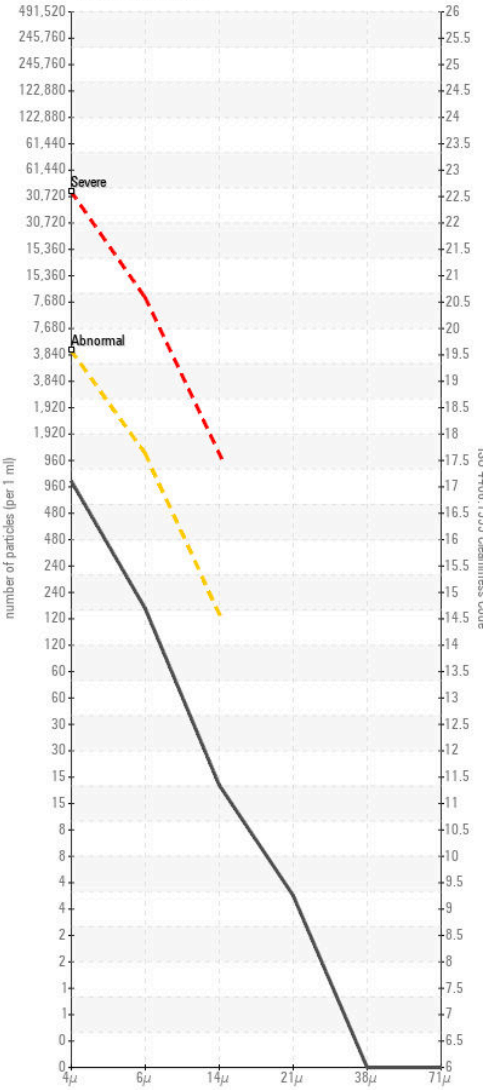
Non-ferrous Metals



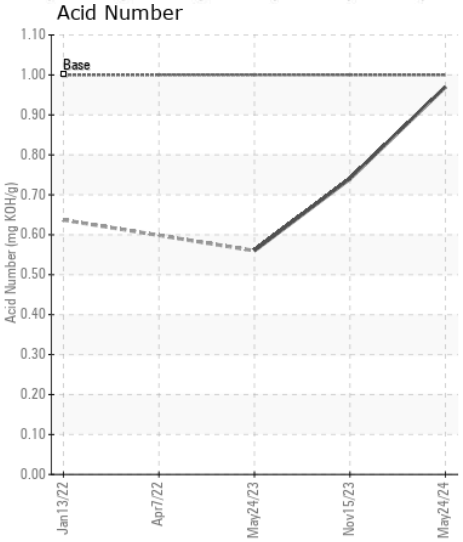
Viscosity @ 40°C



Particle Count



Acid Number



Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: JR0218091	**Received**	: 29 May 2024
Lab Number	: 06194607	**Tested**	: 30 May 2024
Unique Number	: 11056730	**Diagnosed**	: 31 May 2024 - Don Baldridge
Test Package	: CONST (Additional Tests: PQ)		

Certificate L2367

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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