James River Equipment

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 324G 1T0324GKAMJ400490
Component
Hydraulic System
Fluid
JOHN DEERE HYDRAU (--- QTS)

RECOMMENDATION

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

WEAR

All component wear rates are normal.

CONTAMINATION

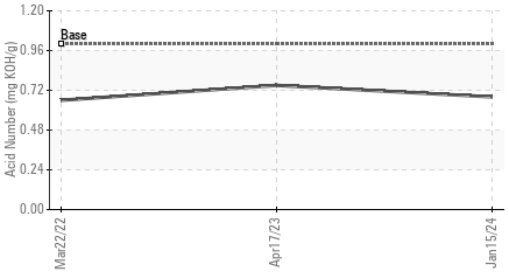
Moderate concentration of visible dirt/debris present in the oil.

FLUID CONDITION

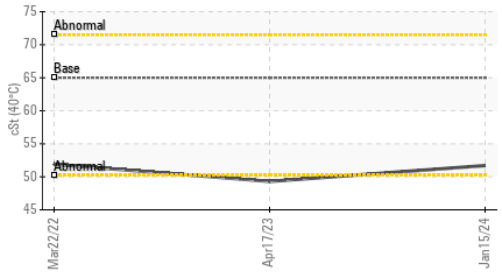
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0200220	JR0164406	JR0125407
Sample Date		Client Info		15 Jan 2024	17 Apr 2023	22 Mar 2022
Machine Age	hrs	Client Info		1491	1013	456
Oil Age	hrs	Client Info		0	1013	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		Changed	Changed	Not Changd
Sample Status				ABNORMAL	ATTENTION	ATTENTION
PQ		ASTM D8184		14	11	20
Iron	ppm	ASTM D5185m	>20	19	18	12
Chromium	ppm	ASTM D5185m	>10	2	1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>10	3	4	2
Lead	ppm	ASTM D5185m	>10	1	0	2
Copper	ppm	ASTM D5185m	>75	7	9	8
Tin	ppm	ASTM D5185m	>10	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	LIGHT	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>20	2	2	2
Potassium	ppm	ASTM D5185m	>20	2	<1	2
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	---	▲ 8139	▲ 5876
Particles >6µm		ASTM D7647	>1300	---	223	205
Particles >14µm		ASTM D7647	>160	---	21	23
Particles >21µm		ASTM D7647	>40	---	7	6
Particles >38µm		ASTM D7647	>10	---	0	1
Particles >71µm		ASTM D7647	>3	---	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	---	▲ 20/15/12	▲ 20/15/12
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	▲ MODER	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		1	2	0
Boron	ppm	ASTM D5185m		0	0	6
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	<1	2
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		14	4	9
Calcium	ppm	ASTM D5185m	87	168	171	176
Phosphorus	ppm	ASTM D5185m	727	638	582	624
Zinc	ppm	ASTM D5185m	900	848	797	900
Sulfur	ppm	ASTM D5185m	1500	1835	1989	1692
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.68	0.75	0.66
Visc @ 40°C	cSt	ASTM D445	65	51.7	49.3	51.9

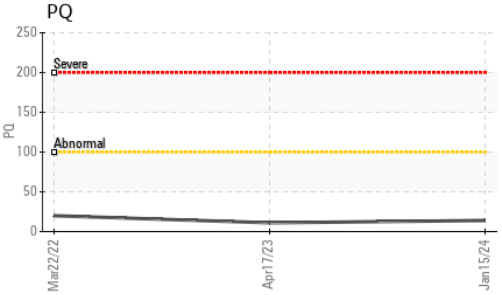
Acid Number



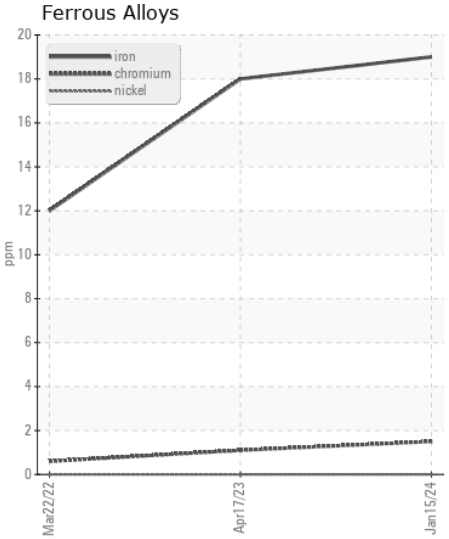
Viscosity @ 40°C



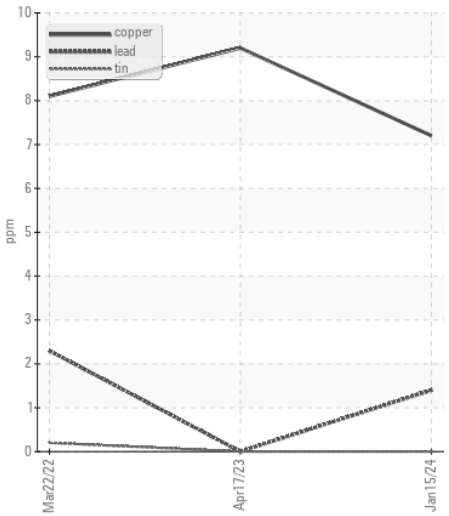
PQ



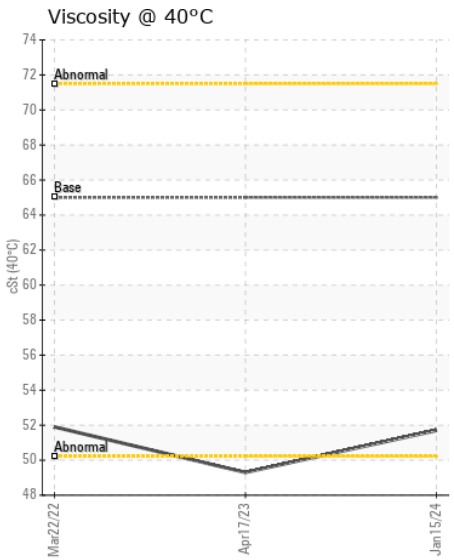
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



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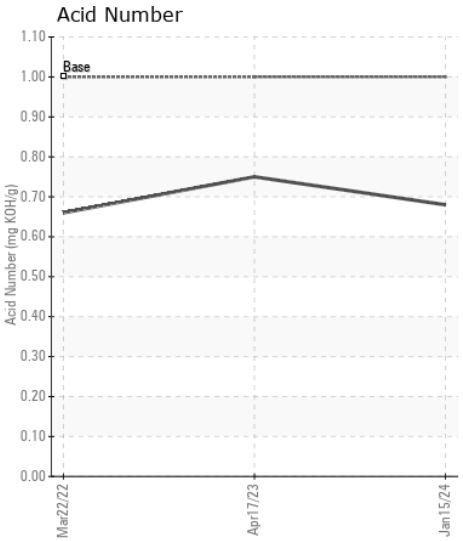

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0200220 **Recieved** : 17 Jan 2024
Lab Number : 06062533 **Diagnosed** : 18 Jan 2024
Unique Number : 10833915 **Diagnostician** : 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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