James River Equipment

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 1T0310SLPMF401520
Component
Hydraulic System
Fluid
JOHN DEERE HYDRAU (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

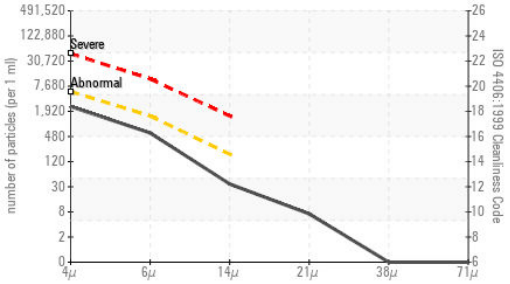
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

FLUID CONDITION

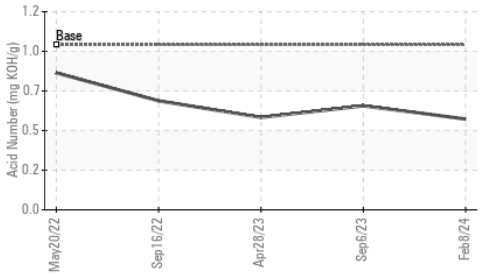
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**JR0203221**	JR0184175	JR0172870
Sample Date		Client Info		**08 Feb 2024**	06 Sep 2023	28 Apr 2023
Machine Age	hrs	Client Info		**2161**	1809	1523
Oil Age	hrs	Client Info		**2161**	0	1523
Filter Age	hrs	Client Info		**2161**	0	0
Oil Changed		Client Info		**Changed**	Not Changd	Not Changd
Filter Changed		Client Info		**Changed**	Changed	Not Changd
Sample Status				**NORMAL**	ABNORMAL	NORMAL
PQ		ASTM D8184		**11**	11	12
Iron	ppm	ASTM D5185m	>20	**3**	3	<1
Chromium	ppm	ASTM D5185m	>10	**5**	4	<1
Nickel	ppm	ASTM D5185m	>10	**0**	0	0
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>10	**<1**	<1	0
Lead	ppm	ASTM D5185m	>10	**0**	0	0
Copper	ppm	ASTM D5185m	>75	**2**	2	<1
Tin	ppm	ASTM D5185m	>10	**0**	0	0
Vanadium	ppm	ASTM D5185m		**0**	<1	<1
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silicon	ppm	ASTM D5185m	>20	**2**	3	<1
Potassium	ppm	ASTM D5185m	>20	**6**	7	3
Water		WC Method	>0.1	**NEG**	NEG	NEG
Particles >4µm		ASTM D7647	>5000	**2188**	---	3819
Particles >6µm		ASTM D7647	>1300	**512**	---	961
Particles >14µm		ASTM D7647	>160	**31**	---	70
Particles >21µm		ASTM D7647	>40	**6**	---	17
Particles >38µm		ASTM D7647	>10	**0**	---	2
Particles >71µm		ASTM D7647	>3	**0**	---	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	**18/16/12**	---	19/17/13
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	▲ MODER	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		**2**	2	16
Boron	ppm	ASTM D5185m		**0**	0	0
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**0**	<1	<1
Manganese	ppm	ASTM D5185m		**0**	<1	0
Magnesium	ppm	ASTM D5185m		**2**	0	<1
Calcium	ppm	ASTM D5185m	87	**85**	91	56
Phosphorus	ppm	ASTM D5185m	727	**535**	569	191
Zinc	ppm	ASTM D5185m	900	**775**	803	206
Sulfur	ppm	ASTM D5185m	1500	**1551**	1808	588
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	**0.55**	0.63	0.56
Visc @ 40°C	cSt	ASTM D445	65	**55.8**	56.4	56.6

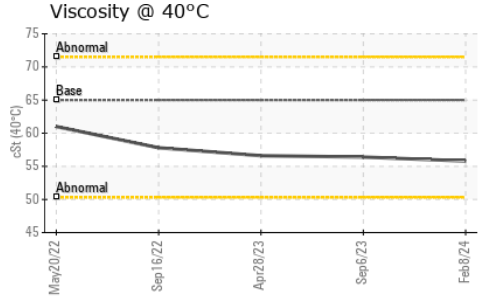
Particle Count



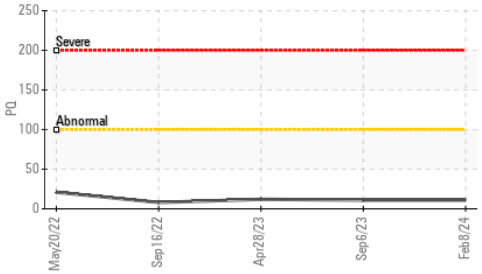
Acid Number



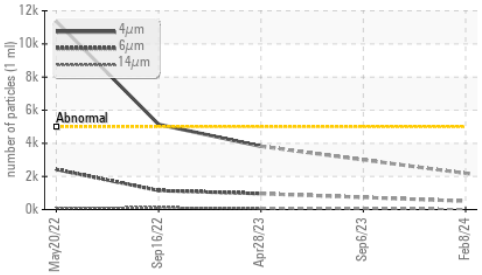
Viscosity @ 40°C



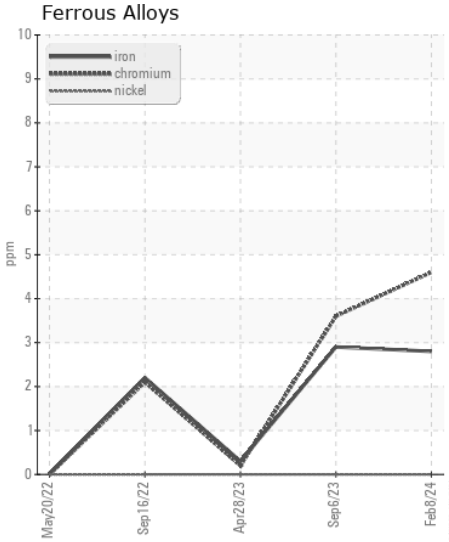
PQ



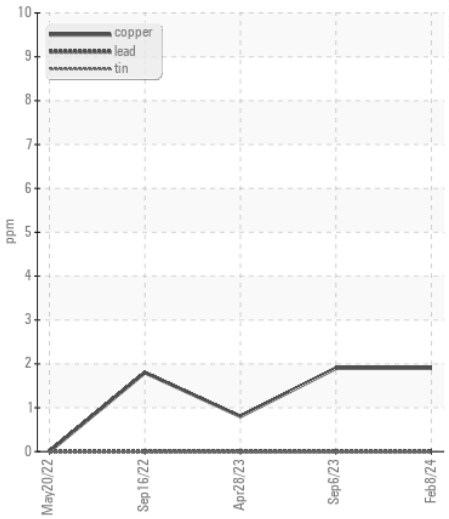
Particle Trend



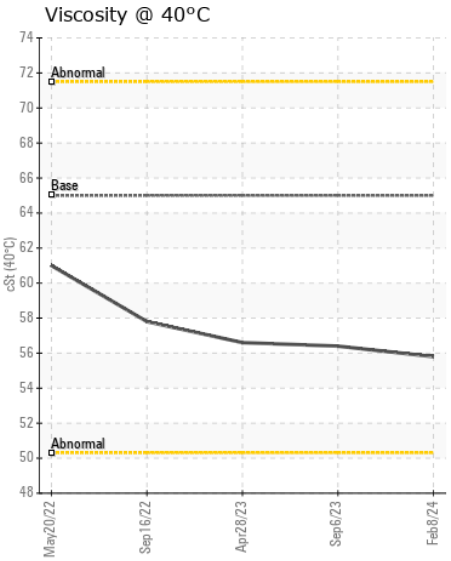
Ferrous Alloys



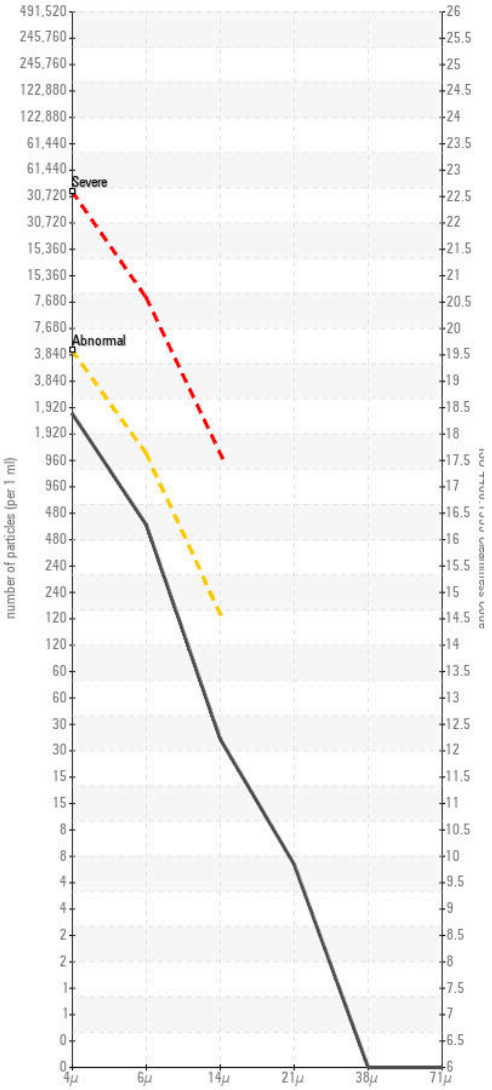
Non-ferrous Metals



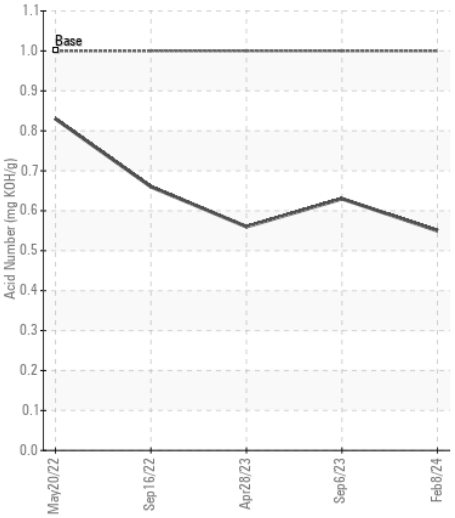
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0203221
Lab Number : 06085356
Unique Number : 10872801
Test Package : CONST (Additional Tests: PQ)

Received : 09 Feb 2024
Tested : 12 Feb 2024
Diagnosed : 12 Feb 2024 - Wes Davis

NPL CONSTRUCTION
7611 COPPERMINE DR
MANASSAS, VA
US 20109-2668
Contact: BRANDON

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: