James River Equipment

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 550K 1T0550KXPGF297535
Component
Hydraulic System
Fluid
JOHN DEERE HYDRAU (--- 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.

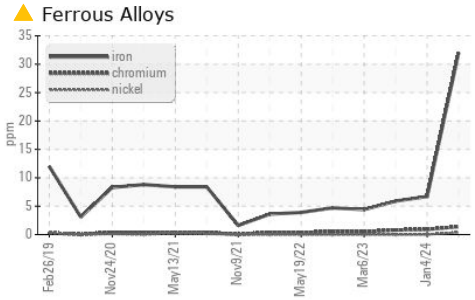
CONTAMINATION

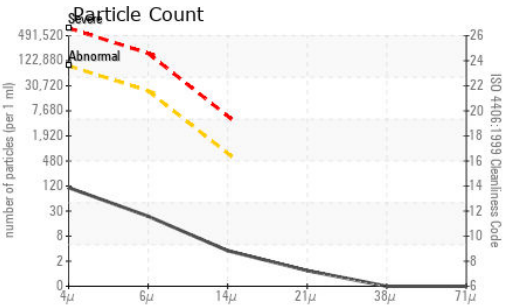
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

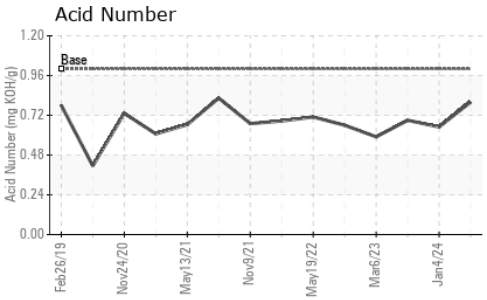
FLUID CONDITION

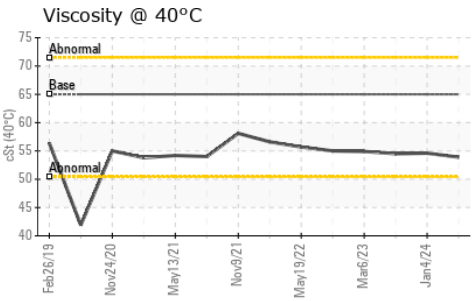
The AN level is acceptable for this fluid. The condition of the oils additive package is suitable for further service.

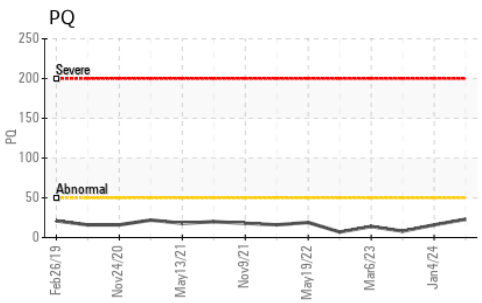
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0207962	JR0201457	JR0176886
Sample Date		Client Info		17 Apr 2024	04 Jan 2024	25 Jul 2023
Machine Age	hrs	Client Info		6294	6061	5746
Oil Age	hrs	Client Info		233	1901	1586
Filter Age	hrs	Client Info		233	1901	1586
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				ABNORMAL	NORMAL	NORMAL
PQ		ASTM D8184	>50	23	16	8
Iron	ppm	ASTM D5185m	>23	▲ 32	7	6
Chromium	ppm	ASTM D5185m	>9	1	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>9	5	2	2
Lead	ppm	ASTM D5185m	>28	1	<1	0
Copper	ppm	ASTM D5185m	>51	7	6	4
Tin	ppm	ASTM D5185m	>5	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>31	8	3	2
Potassium	ppm	ASTM D5185m	>20	2	1	<1
Water		WC Method	>0.075	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>80000	97	1661	690
Particles >6µm		ASTM D7647	>20000	20	87	85
Particles >14µm		ASTM D7647	>640	3	12	9
Particles >21µm		ASTM D7647	>160	1	4	3
Particles >38µm		ASTM D7647	>40	0	0	0
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>23/21/16	14/11/9	18/14/11	17/14/10
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	>0.075	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m	>21	<1	0	<1
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	<1	<1
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		5	2	0
Calcium	ppm	ASTM D5185m	87	171	131	119
Phosphorus	ppm	ASTM D5185m	727	685	610	622
Zinc	ppm	ASTM D5185m	900	832	825	829
Sulfur	ppm	ASTM D5185m	1500	1887	1634	1897
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.80	0.65	0.69
Visc @ 40°C	cSt	ASTM D445	65	53.9	54.6	54.5

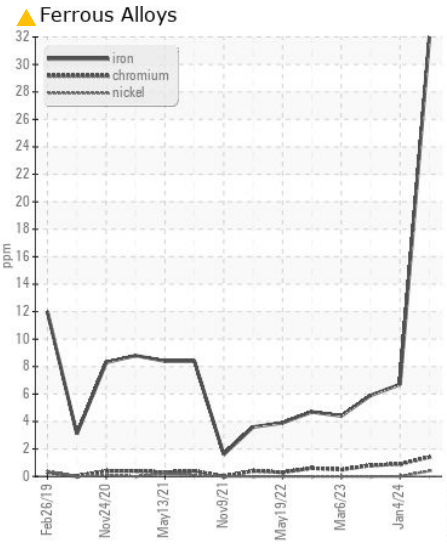


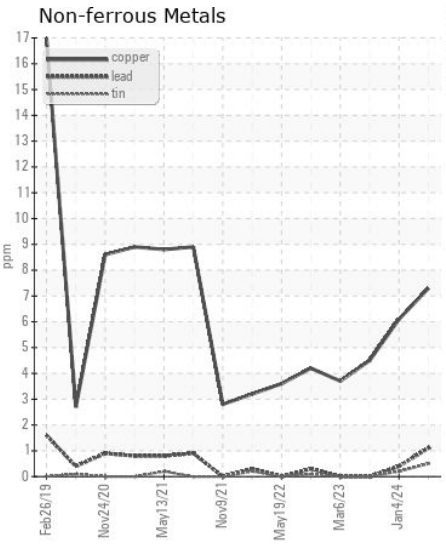


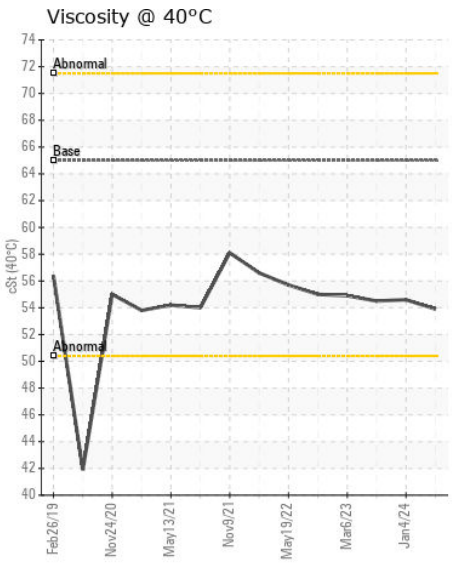


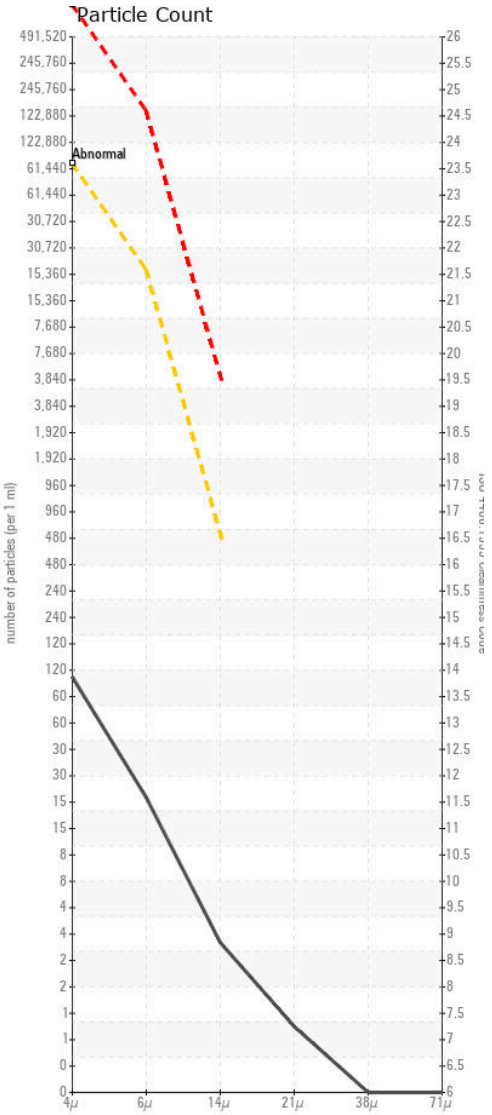


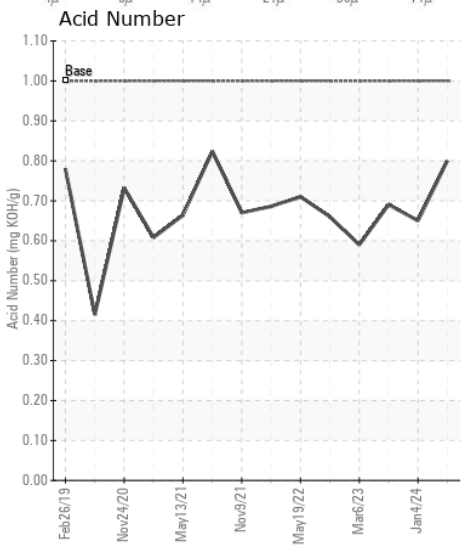












Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0207962 **Received** : 23 Apr 2024
Lab Number : 06158413 **Tested** : 24 Apr 2024
Unique Number : 10993836 **Diagnosed** : 25 Apr 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)

TENNOCA CONSTRUCTION
PO BOX 2379
CANDLER, NC
US 28715
Contact: MARK ROSS
mark@tennoca.com
T: (828)665-8331
F: