James River Equipment

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 3038E 1LV3038ECHH106335
Component
Hydraulic System
Fluid
JOHN DEERE HY-GARD HYD/TRANS LOW VIS (--- GAL)

RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

WEAR

The iron level is abnormal. All other component wear rates are normal.

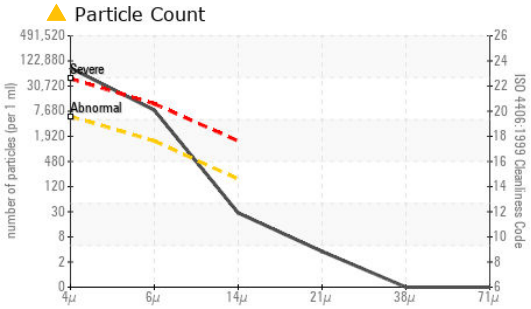
CONTAMINATION

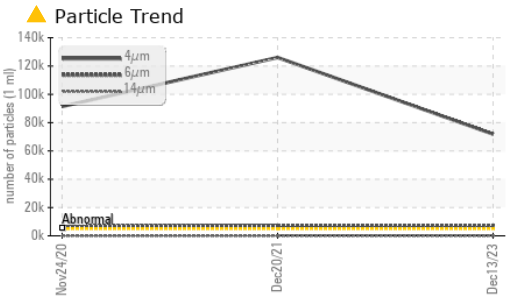
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

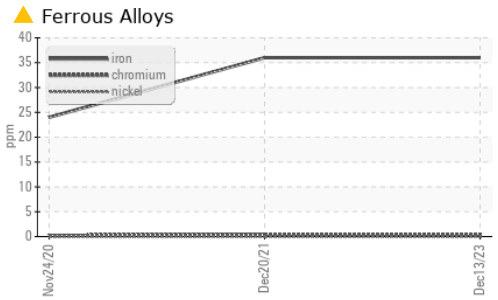
FLUID CONDITION

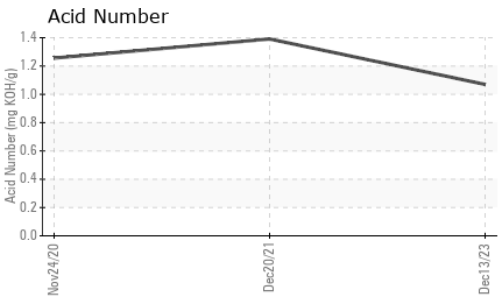
The AN level is acceptable for this fluid. The condition of the oils additive package is suitable for further service.

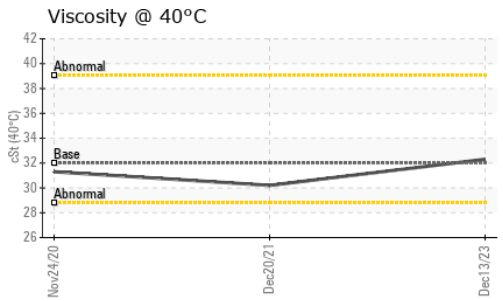
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0189709	JR0093502	JR0048289
Sample Date		Client Info		13 Dec 2023	20 Dec 2021	24 Nov 2020
Machine Age	hrs	Client Info		297	202	111
Oil Age	hrs	Client Info		0	202	0
Filter Age	hrs	Client Info		0	202	0
Oil Changed		Client Info		N/A	Not Changd	Not Changd
Filter Changed		Client Info		N/A	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
PQ		ASTM D8184		20	16	20
Iron	ppm	ASTM D5185m	>20	▲ 36	▲ 36	▲ 24
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	<1	<1
Aluminum	ppm	ASTM D5185m	>10	2	2	0
Lead	ppm	ASTM D5185m	>10	2	3	1
Copper	ppm	ASTM D5185m	>75	32	32	28
Tin	ppm	ASTM D5185m	>10	2	2	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>20	8	9	8
Potassium	ppm	ASTM D5185m	>20	4	2	2
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	▲ 71857	▲ 126014	▲ 91381
Particles >6µm		ASTM D7647	>1300	▲ 7082	▲ 7388	▲ 6483
Particles >14µm		ASTM D7647	>160	25	19	47
Particles >21µm		ASTM D7647	>40	3	3	9
Particles >38µm		ASTM D7647	>10	0	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 23/20/12	▲ 24/20/11	▲ 24/20/13
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	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	3	0
Boron	ppm	ASTM D5185m		2	5	2
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		2	<1	<1
Manganese	ppm	ASTM D5185m		1	1	1
Magnesium	ppm	ASTM D5185m		95	100	93
Calcium	ppm	ASTM D5185m		3276	3571	3389
Phosphorus	ppm	ASTM D5185m		1007	1011	992
Zinc	ppm	ASTM D5185m		1173	1207	1186
Sulfur	ppm	ASTM D5185m		3999	3043	2920
Acid Number (AN)	mg KOH/g	ASTM D8045		1.07	1.391	1.256
Visc @ 40°C	cSt	ASTM D445	32	32.3	30.2	31.3

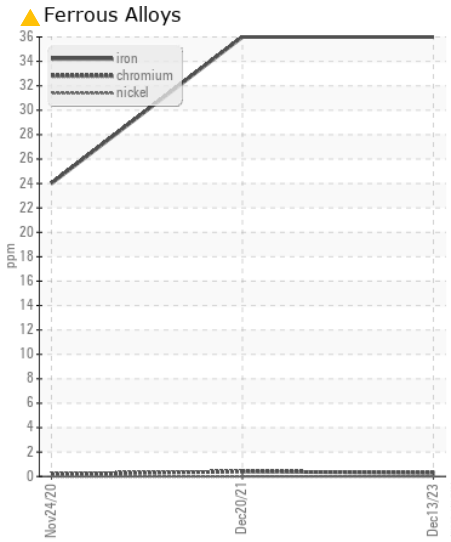


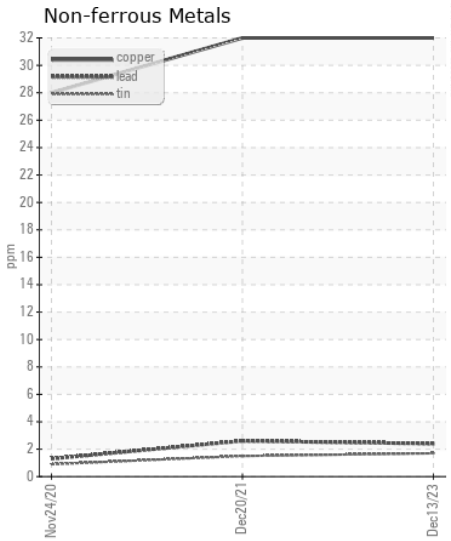


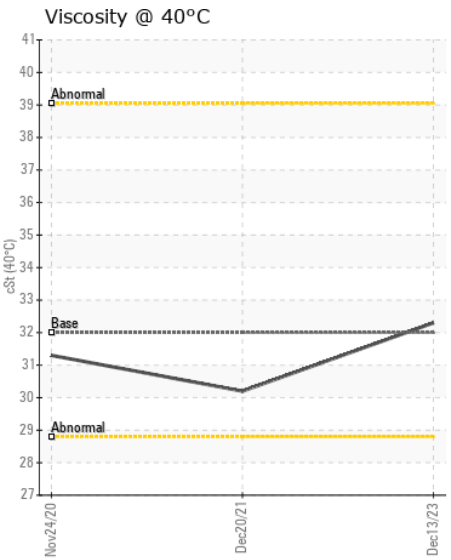


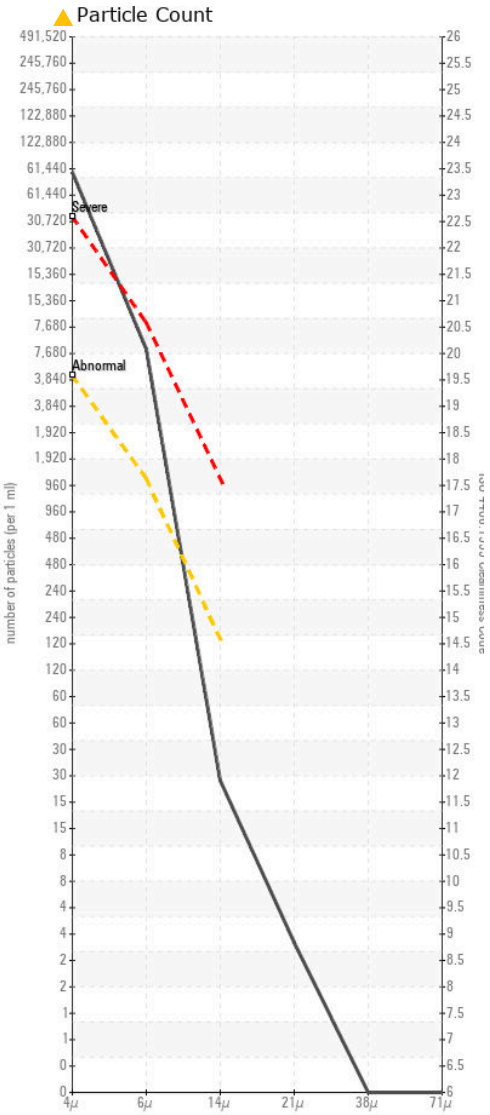


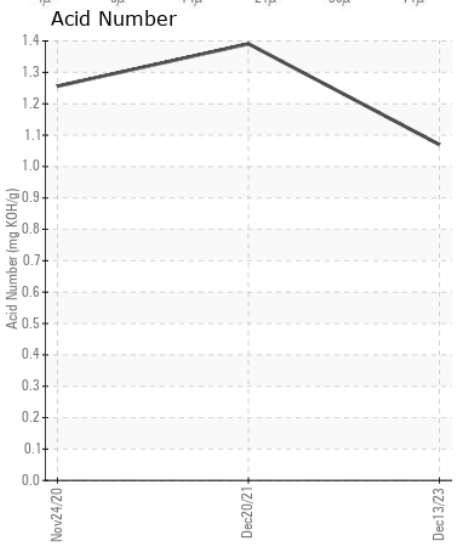












Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: JR0189709	**Recieved**	: 11 Jan 2024
Lab Number	: 06057993	**Diagnosed**	: 12 Jan 2024
Unique Number	: 10829375	**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)

JRE - LA CROSSE
38431 HWY 58
LA CROSSE, VA
US 23950-1807
Contact: HUNTER GREEN
hgreen@jamesriverequipment.com
T: (434)447-4325
F: (434)447-1329