James River Equipment

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 3038E 1LV3038EHKK129394
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.

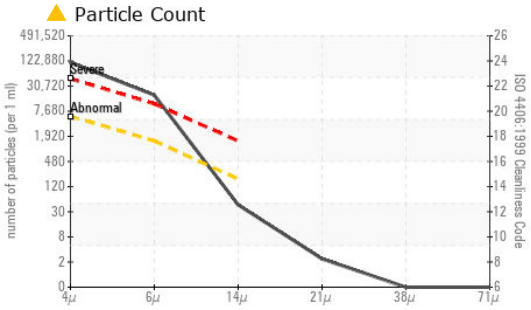
CONTAMINATION

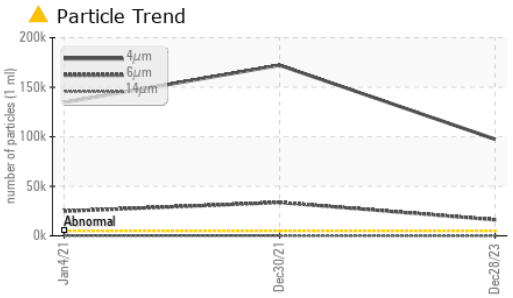
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

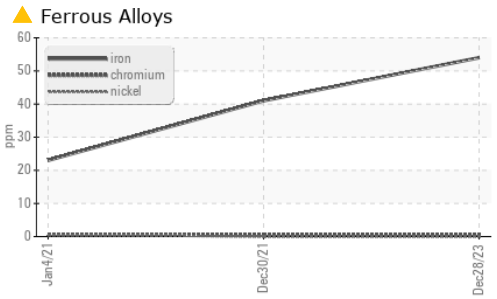
FLUID CONDITION

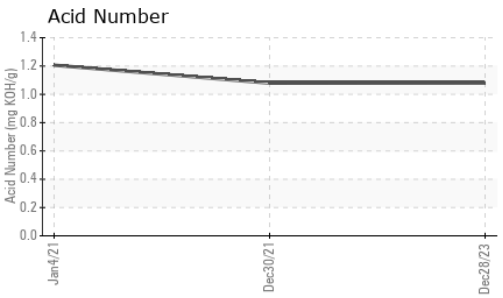
The AN level is acceptable for this fluid. The condition of the oils additive package is suitable for further service.

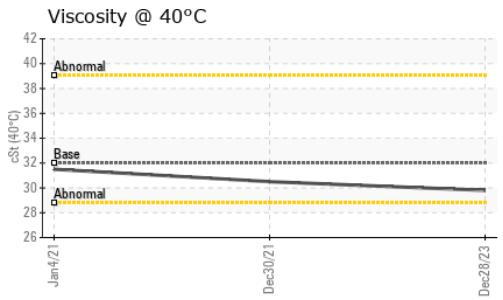
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0189670	JR0093492	JR0048460
Sample Date		Client Info		28 Dec 2023	30 Dec 2021	04 Jan 2021
Machine Age	hrs	Client Info		89	53	50
Oil Age	hrs	Client Info		0	0	50
Filter Age	hrs	Client Info		0	0	50
Oil Changed		Client Info		N/A	Not Changd	Not Changd
Filter Changed		Client Info		N/A	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
PQ		ASTM D8184		36	34	25
Iron	ppm	ASTM D5185m	>20	▲ 54	▲ 41	▲ 23
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		2	1	<1
Aluminum	ppm	ASTM D5185m	>10	3	6	3
Lead	ppm	ASTM D5185m	>10	2	2	2
Copper	ppm	ASTM D5185m	>75	67	50	28
Tin	ppm	ASTM D5185m	>10	1	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>20	12	12	16
Potassium	ppm	ASTM D5185m	>20	6	4	0
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	▲ 97522	▲ 172264	▲ 134567
Particles >6µm		ASTM D7647	>1300	▲ 16170	▲ 33692	▲ 24826
Particles >14µm		ASTM D7647	>160	39	▲ 189	136
Particles >21µm		ASTM D7647	>40	2	6	30
Particles >38µm		ASTM D7647	>10	0	0	3
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 24/21/12	▲ 25/22/15	▲ 24/22/14
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		<1	<1	5
Boron	ppm	ASTM D5185m		2	5	3
Barium	ppm	ASTM D5185m		0	<1	0
Molybdenum	ppm	ASTM D5185m		1	<1	3
Manganese	ppm	ASTM D5185m		2	2	2
Magnesium	ppm	ASTM D5185m		94	100	109
Calcium	ppm	ASTM D5185m		3245	3409	3879
Phosphorus	ppm	ASTM D5185m		993	1014	1016
Zinc	ppm	ASTM D5185m		1156	1218	1242
Sulfur	ppm	ASTM D5185m		3790	3239	2990
Acid Number (AN)	mg KOH/g	ASTM D8045		1.08	1.079	1.206
Visc @ 40°C	cSt	ASTM D445	32	29.8	30.5	31.5

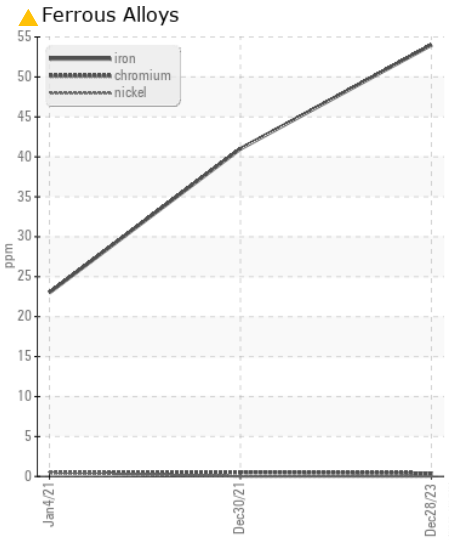


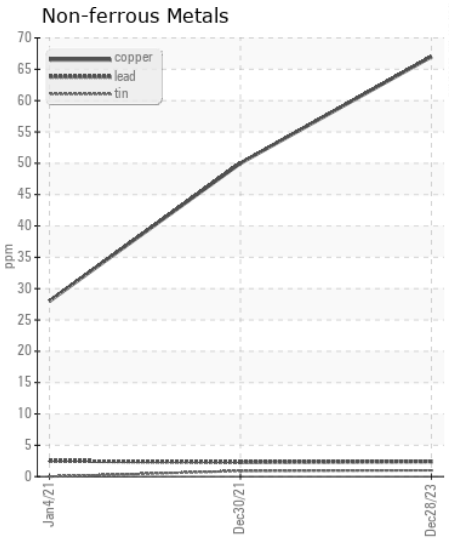


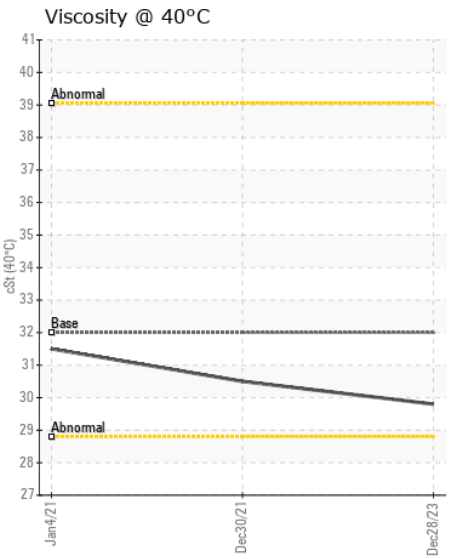


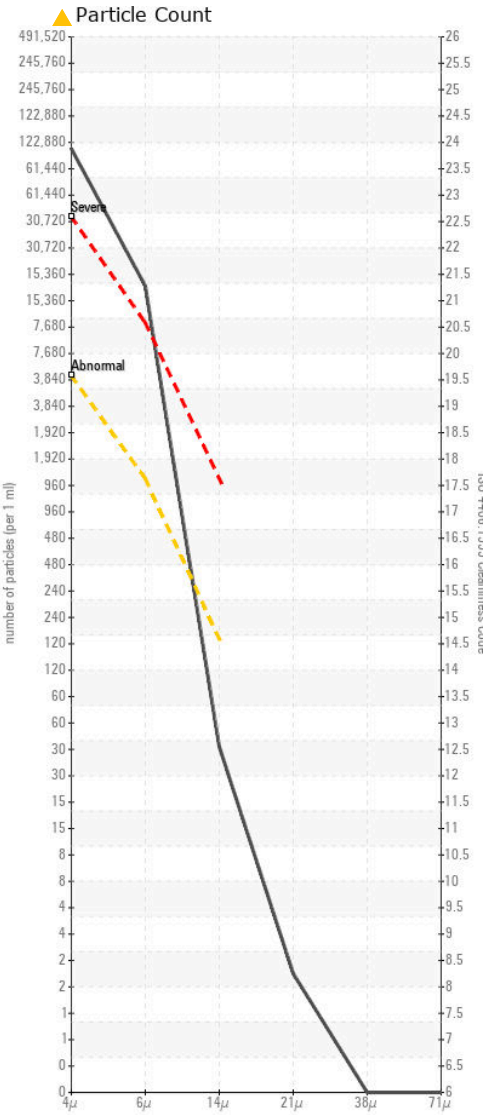


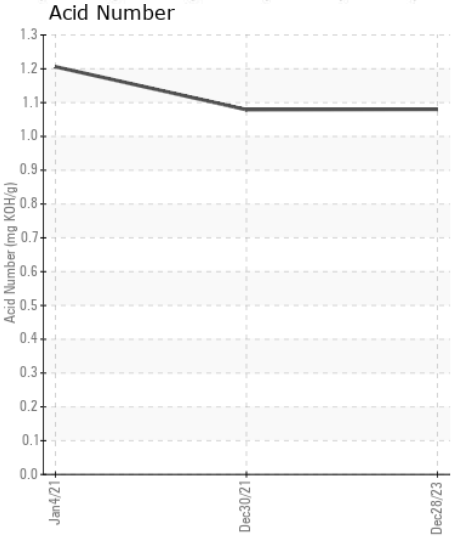












Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0189670 **Recieved** : 11 Jan 2024
Lab Number : 06057991 **Diagnosed** : 12 Jan 2024
Unique Number : 10829373 **Diagnostician** : Don Baldridge
Test Package : CONST (Additional Tests: PQ)

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)

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