



Area
[RICKEY HALL]
 Machine Id
JOHN DEERE 333G 1T0333GKLG303757
 Component
Hydraulic System
 Fluid
JOHN DEERE HYDRAU (9 GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please note that the oil was too thick to perform some of the normal laboratory tests.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0191296	JR0135253	JR0066830
Sample Date		Client Info		04 Jan 2024	28 Jul 2022	11 Nov 2020
Machine Age	hrs	Client Info		3269	2667	2091
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Chngd	Changed
Filter Changed		Client Info		Changed	Not Chngd	Changed
Sample Status				ABNORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		18	17	44
Iron	ppm	ASTM D5185m	>20	4	6	39
Chromium	ppm	ASTM D5185m	>10	<1	<1	2
Nickel	ppm	ASTM D5185m	>10	0	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	15
Aluminum	ppm	ASTM D5185m	>10	2	1	0
Lead	ppm	ASTM D5185m	>10	0	1	3
Copper	ppm	ASTM D5185m	>75	2	11	6
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

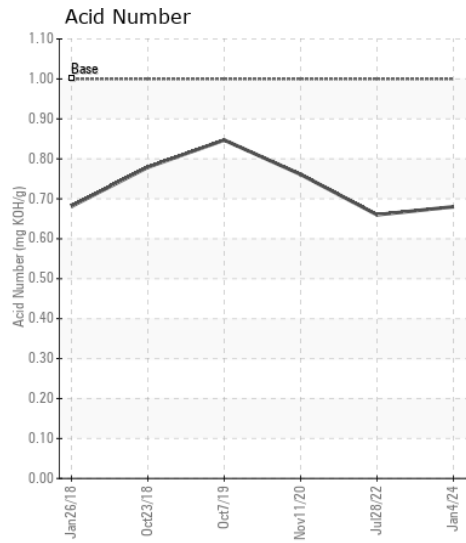
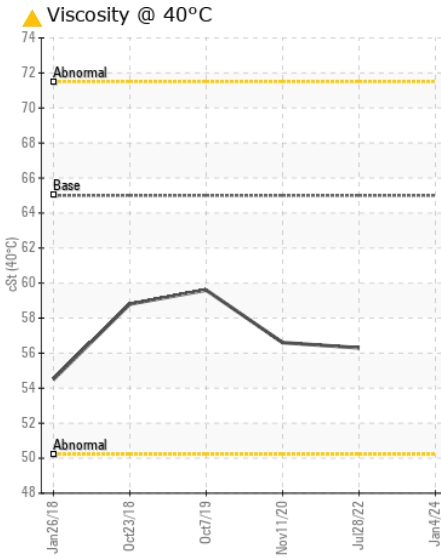
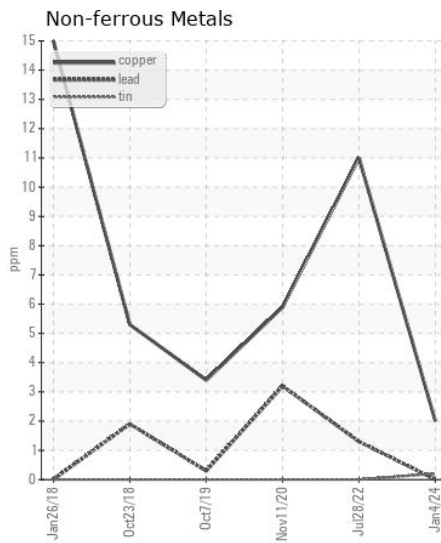
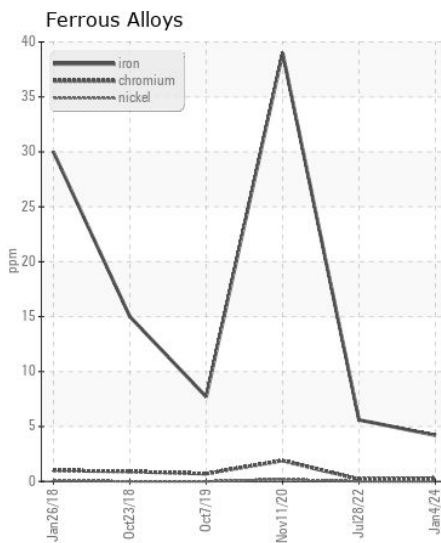
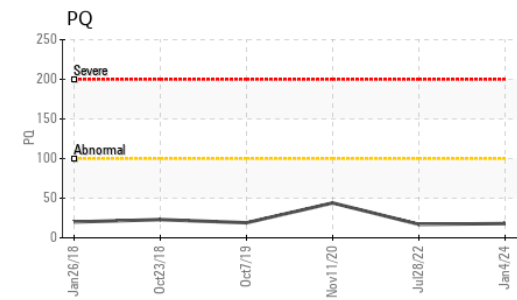
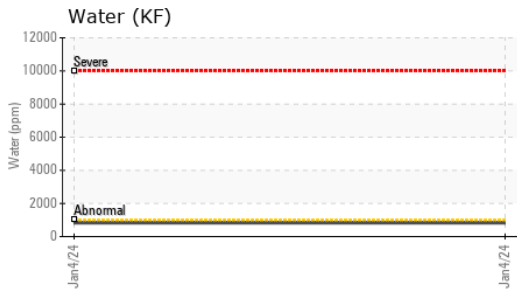
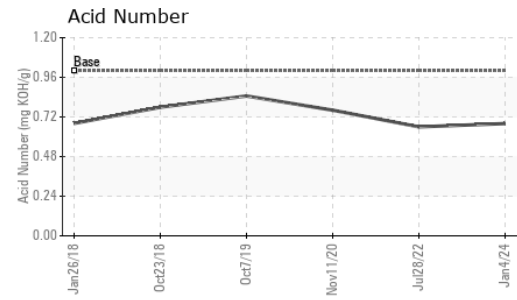
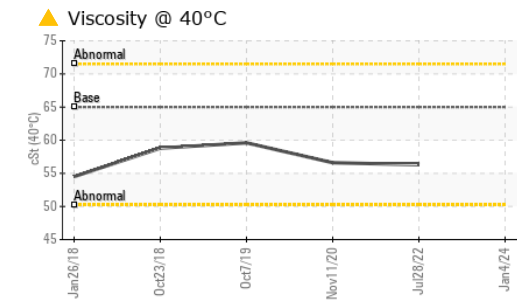
Appearance is unacceptable. The water content is negligible.

Silicon	ppm	ASTM D5185m	>20	3	2	3
Potassium	ppm	ASTM D5185m	>20	1	3	2
Water	%	ASTM D6304	>0.1	0.083	---	---
ppm Water	ppm	ASTM D6304	>1000	830	---	---
Particles >4µm		ASTM D7647	>5000	---	3145	▲ 150502
Particles >6µm		ASTM D7647	>1300	---	257	▲ 23754
Particles >14µm		ASTM D7647	>160	---	15	72
Particles >21µm		ASTM D7647	>40	---	4	14
Particles >38µm		ASTM D7647	>10	---	0	2
Particles >71µm		ASTM D7647	>3	---	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	---	19/15/11	▲ 24/22/13
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	▲ LAYRD	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	0.2%	NEG	NEG

FLUID CONDITION

The oil viscosity is higher than normal.

Sodium	ppm	ASTM D5185m		<1	0	2
Boron	ppm	ASTM D5185m		2	<1	19
Barium	ppm	ASTM D5185m		0	0	3
Molybdenum	ppm	ASTM D5185m		<1	<1	17
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		2	2	57
Calcium	ppm	ASTM D5185m	87	123	88	261
Phosphorus	ppm	ASTM D5185m	727	390	622	635
Zinc	ppm	ASTM D5185m	900	448	850	743
Sulfur	ppm	ASTM D5185m	1500	971	1999	1552
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.68	0.66	0.761
Visc @ 40°C	cSt	ASTM D445	65	▲ ---	56.3	56.6



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0191296 **Received** : 16 Jan 2024
Lab Number : 06061893 **Diagnosed** : 23 Jan 2024
Unique Number : 10833275 **Diagnostician** : Doug Bogart
Test Package : CONST (Additional Tests: KF, PQ)

JRE - ASHEVILLE
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 US 28806
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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)