



WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
[W22490-WISNOWSKI]
 Machine Id
JOHN DEERE 3033R 1LV3033REHH102472
 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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0204450	JR0120674	JR0069634
Sample Date		Client Info		12 Jun 2024	28 Feb 2022	13 Nov 2020
Machine Age	hrs	Client Info		390	237	140
Oil Age	hrs	Client Info		0	0	140
Filter Age	hrs	Client Info		0	0	140
Oil Changed		Client Info		Not Chngd	Not Chngd	N/A
Filter Changed		Client Info		Not Chngd	Not Chngd	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		18	36	21
Iron	ppm	ASTM D5185m	>20	29	▲ 24	20
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		3	2	2
Aluminum	ppm	ASTM D5185m	>10	3	2	0
Lead	ppm	ASTM D5185m	>10	3	4	2
Copper	ppm	ASTM D5185m	>75	44	34	32
Tin	ppm	ASTM D5185m	>10	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	LIGHT	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

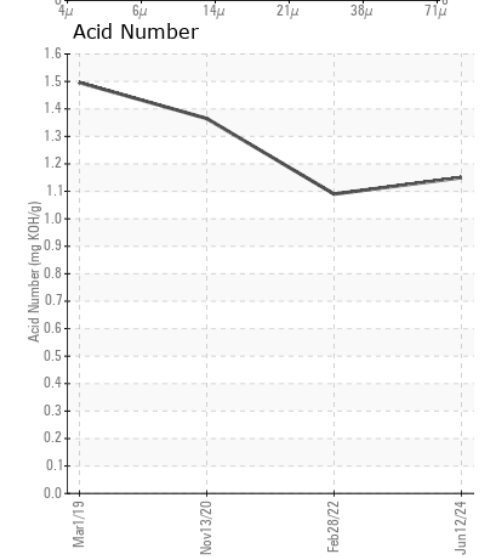
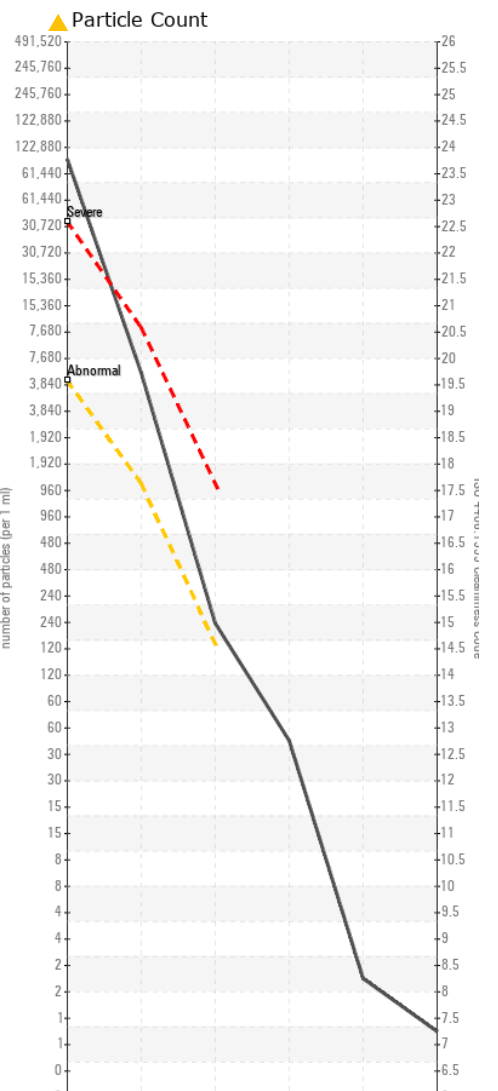
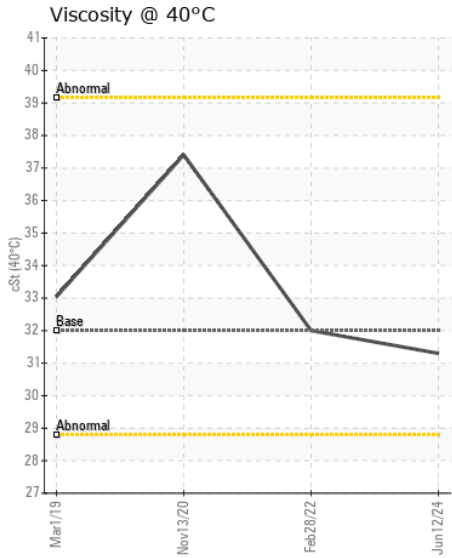
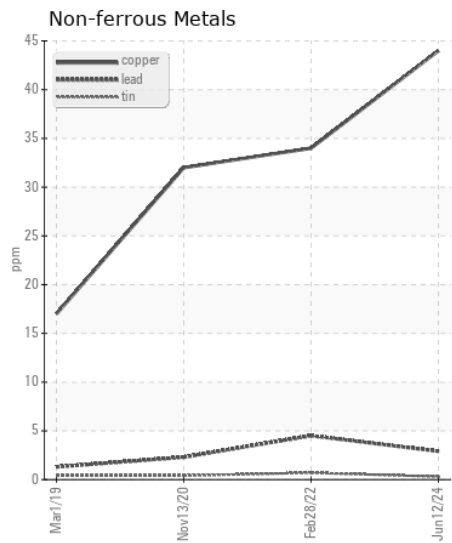
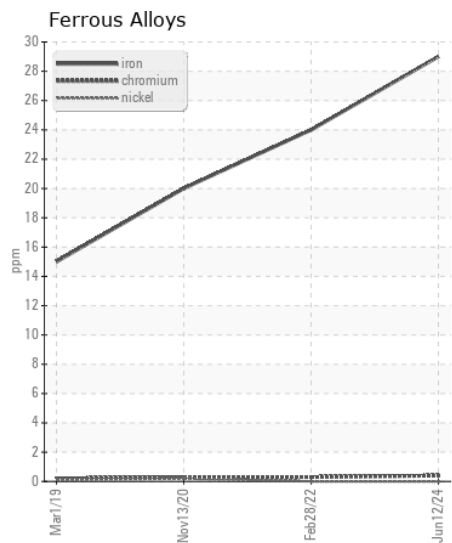
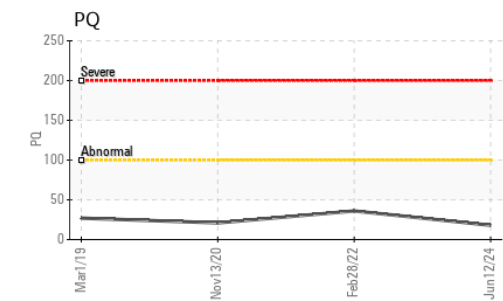
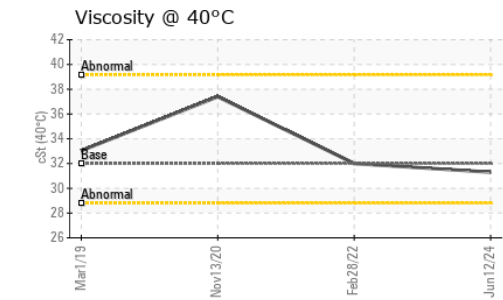
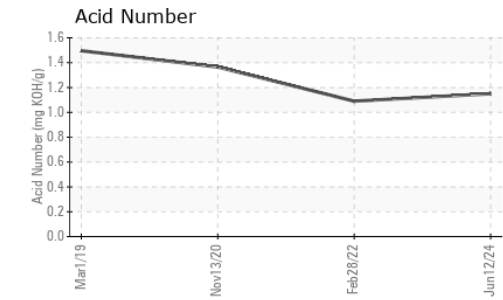
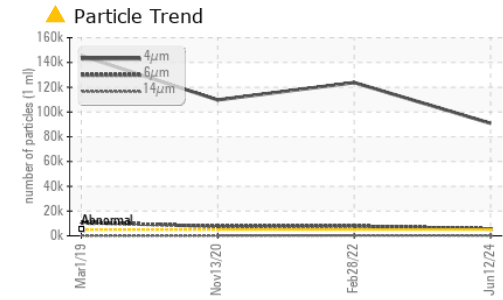
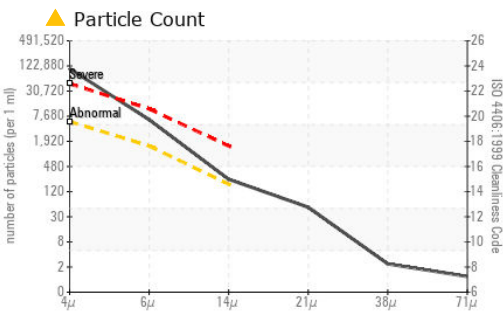
There is a high amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>20	5	5	0
Potassium	ppm	ASTM D5185m	>20	3	0	4
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	▲ 90832	▲ 123756	▲ 109759
Particles >6µm		ASTM D7647	>1300	▲ 5539	▲ 7824	▲ 7537
Particles >14µm		ASTM D7647	>160	▲ 209	▲ 291	147
Particles >21µm		ASTM D7647	>40	▲ 45	▲ 76	32
Particles >38µm		ASTM D7647	>10	2	2	2
Particles >71µm		ASTM D7647	>3	1	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 24/20/15	▲ 24/20/15	▲ 24/20/14
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
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

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		6	4	4
Boron	ppm	ASTM D5185m		<1	4	6
Barium	ppm	ASTM D5185m		2	0	<1
Molybdenum	ppm	ASTM D5185m		<1	1	<1
Manganese	ppm	ASTM D5185m		2	2	2
Magnesium	ppm	ASTM D5185m		83	87	83
Calcium	ppm	ASTM D5185m		3372	3396	3377
Phosphorus	ppm	ASTM D5185m		1020	1042	1025
Zinc	ppm	ASTM D5185m		1238	1194	1221
Sulfur	ppm	ASTM D5185m		4081	3211	3092
Acid Number (AN)	mg KOH/g	ASTM D8045		1.15	1.09	1.365
Visc @ 40°C	cSt	ASTM D445	32	31.3	32.0	37.4



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0204450 **Received** : 17 Jun 2024
Lab Number : 06212284 **Tested** : 19 Jun 2024
Unique Number : 11085148 **Diagnosed** : 19 Jun 2024 - Don Baldrige
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)

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