



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Machine Id
HITACHI 350LC 1FFDDR70CLF940874

Component
Pump Drive

Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0202557	JR0175132	JR0151131
Sample Date		Client Info		27 Feb 2024	24 May 2023	14 Oct 2022
Machine Age	hrs	Client Info		3560	2538	1983
Oil Age	hrs	Client Info		1285	2538	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		24	16	11
Iron	ppm	ASTM D5185m	>500	15	40	85
Chromium	ppm	ASTM D5185m	>15	0	<1	1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	2	6
Lead	ppm	ASTM D5185m		0	0	0
Copper	ppm	ASTM D5185m	>35	0	0	<1
Tin	ppm	ASTM D5185m	>4	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	MODER	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

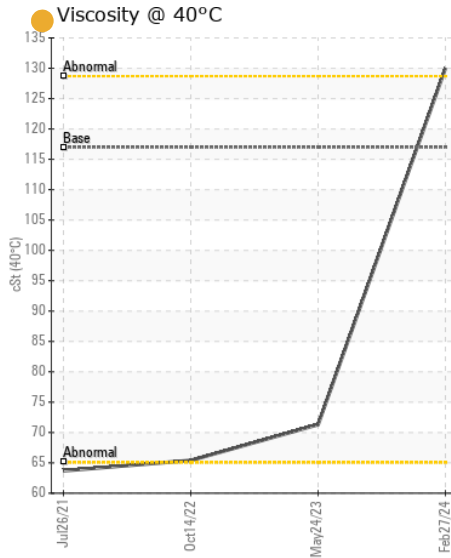
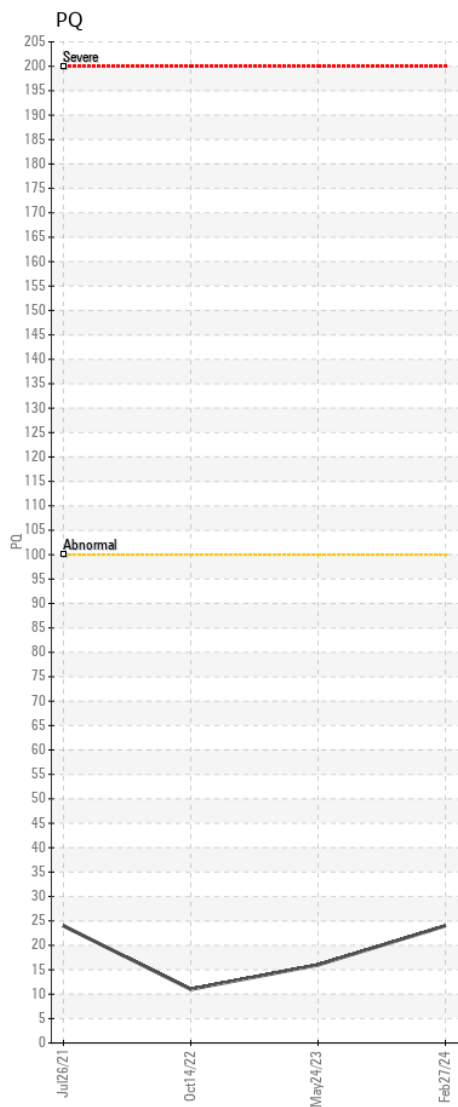
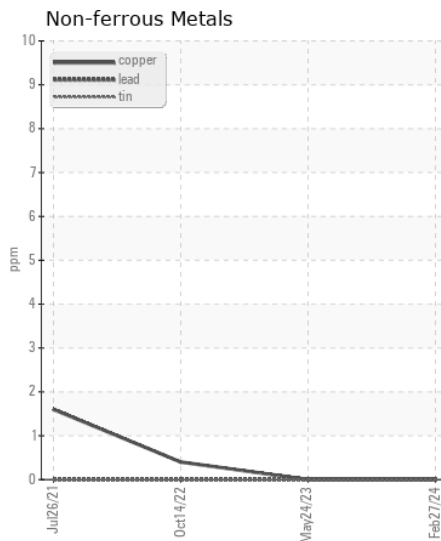
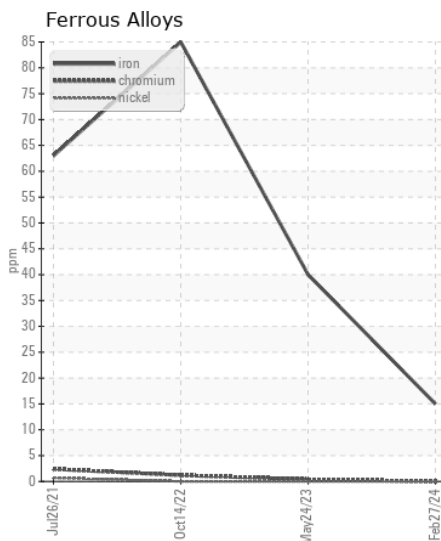
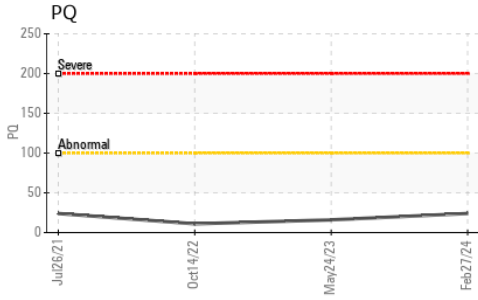
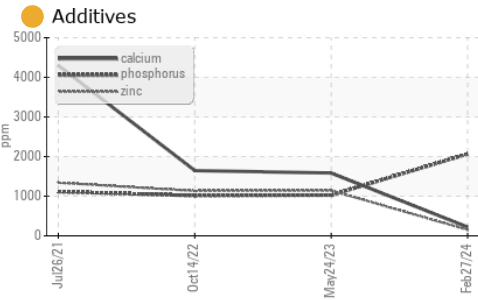
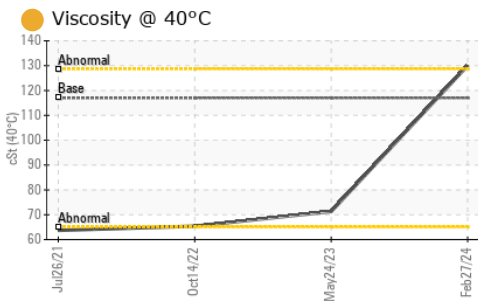
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	3	12	31
Potassium	ppm	ASTM D5185m	>20	0	2	3
Water		WC Method	>0.2	NEG	NEG	NEG
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	>0.2	NEG	NEG	NEG

FLUID CONDITION

The oil viscosity is higher than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.

Sodium	ppm	ASTM D5185m		3	0	0
Boron	ppm	ASTM D5185m		29	319	269
Barium	ppm	ASTM D5185m		0	3	0
Molybdenum	ppm	ASTM D5185m		30	275	252
Manganese	ppm	ASTM D5185m		0	<1	2
Magnesium	ppm	ASTM D5185m		87	791	739
Calcium	ppm	ASTM D5185m		220	1584	1647
Phosphorus	ppm	ASTM D5185m		2065	1026	1014
Zinc	ppm	ASTM D5185m		150	1143	1132
Sulfur	ppm	ASTM D5185m		21525	3978	5434
Visc @ 40°C	cSt	ASTM D445	117	130	71.3	65.4



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : JR0202557

Lab Number : 06104593

Unique Number : 10902823

Test Package : CONST (Additional Tests: PQ)

Received : 29 Feb 2024

Tested : 01 Mar 2024

Diagnosed : 04 Mar 2024 - Don Baldrige

JRE - GARNER

4161 AUBURN CHURCH RD

GARNER, NC

US 27529

Contact: RALEIGH SHOP

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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)