



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[W47851 SEG 5]
 Machine Id
HITACHI 350LC 1FFDDR70HKF940804
 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		JR0208541	JR0166652	JR0147474
Sample Date		Client Info		01 Jul 2024	10 Mar 2023	14 Oct 2022
Machine Age	hrs	Client Info		5718	5440	5310
Oil Age	hrs	Client Info		0	0	310
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		N/A	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184		111	95	75
Iron	ppm	ASTM D5185m	>500	472	292	255
Chromium	ppm	ASTM D5185m	>15	4	3	3
Nickel	ppm	ASTM D5185m	>10	0	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>20	11	6	4
Lead	ppm	ASTM D5185m		0	<1	0
Copper	ppm	ASTM D5185m	>35	0	<1	<1
Tin	ppm	ASTM D5185m	>4	0	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	MODER	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

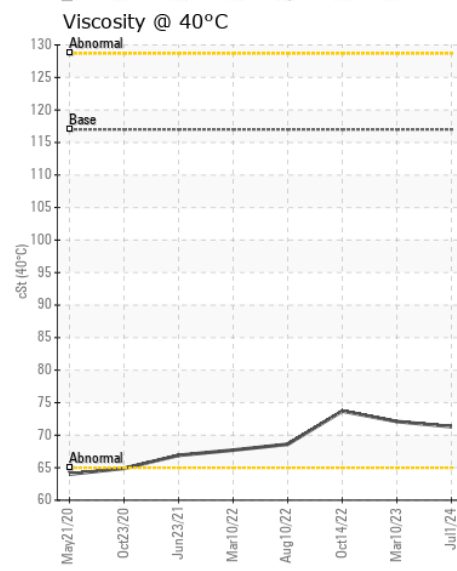
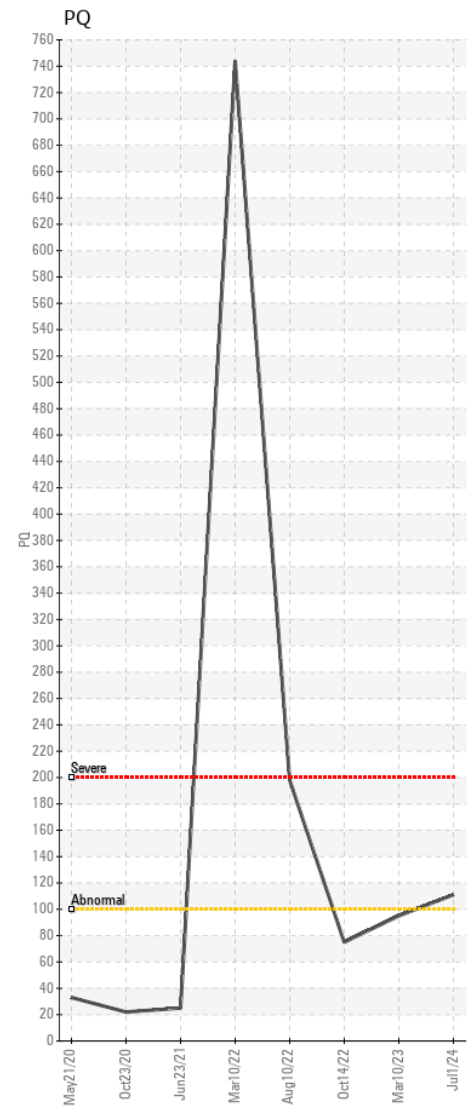
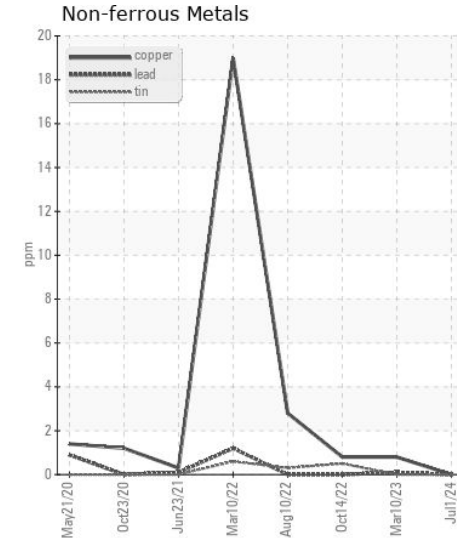
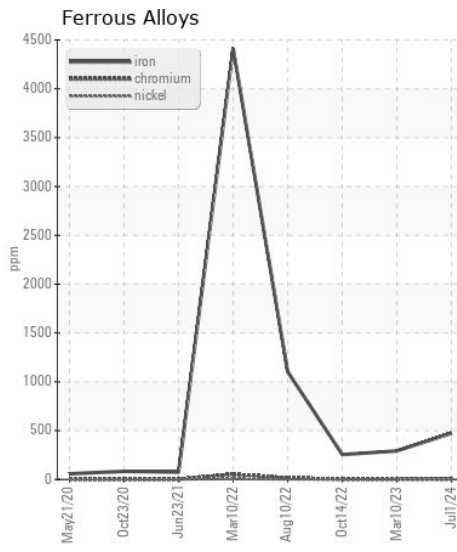
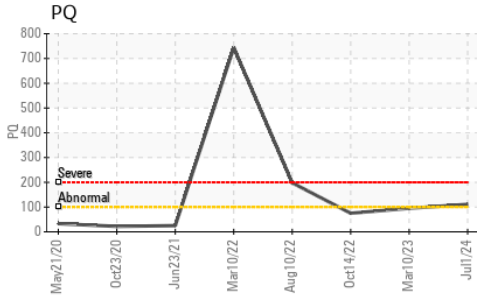
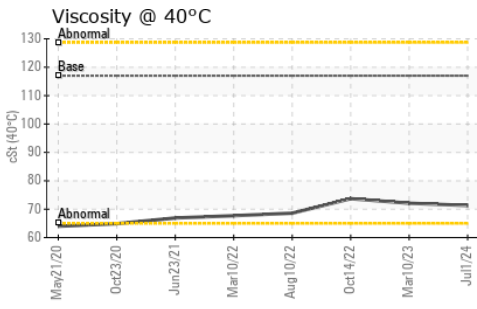
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	24	14	14
Potassium	ppm	ASTM D5185m	>20	1	3	0
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 condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		4	0	0
Boron	ppm	ASTM D5185m		265	280	306
Barium	ppm	ASTM D5185m		0	3	0
Molybdenum	ppm	ASTM D5185m		231	243	243
Manganese	ppm	ASTM D5185m		5	3	3
Magnesium	ppm	ASTM D5185m		805	715	789
Calcium	ppm	ASTM D5185m		1433	1461	1558
Phosphorus	ppm	ASTM D5185m		984	936	944
Zinc	ppm	ASTM D5185m		1052	1041	1119
Sulfur	ppm	ASTM D5185m		3935	3088	4411
Visc @ 40°C	cSt	ASTM D445	117	71.3	72.1	73.7



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0208541 **Received** : 03 Jul 2024
Lab Number : 06227814 **Tested** : 05 Jul 2024
Unique Number : 11111307 **Diagnosed** : 07 Jul 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

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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)