



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[W66265]

Machine Id
HITACHI 210LC 1FFDC571EMF341025

Component
Pump Drive

Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (2 QTS)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: W66265)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0205876	JR0188652	JR0141949
Sample Date		Client Info		23 Apr 2024	29 Sep 2023	12 Apr 2023
Machine Age	hrs	Client Info		2014	1533	945
Oil Age	hrs	Client Info		1426	1588	500
Filter Age	hrs	Client Info		0	0	500
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Not Changed	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		16	14	12
Iron	ppm	ASTM D5185m	>500	81	45	55
Chromium	ppm	ASTM D5185m	>15	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	16	9	<1
Lead	ppm	ASTM D5185m		0	0	0
Copper	ppm	ASTM D5185m	>35	0	0	1
Tin	ppm	ASTM D5185m	>4	<1	0	0
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	LIGHT	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

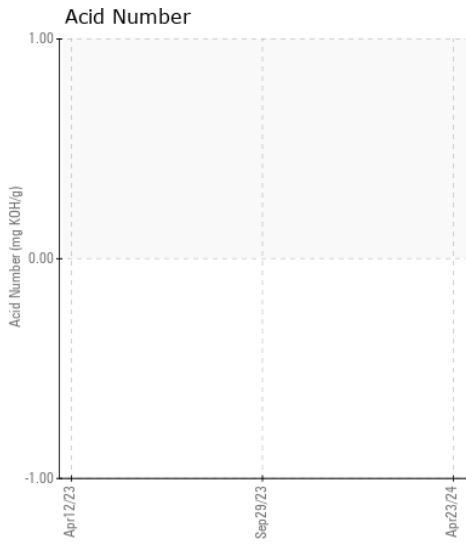
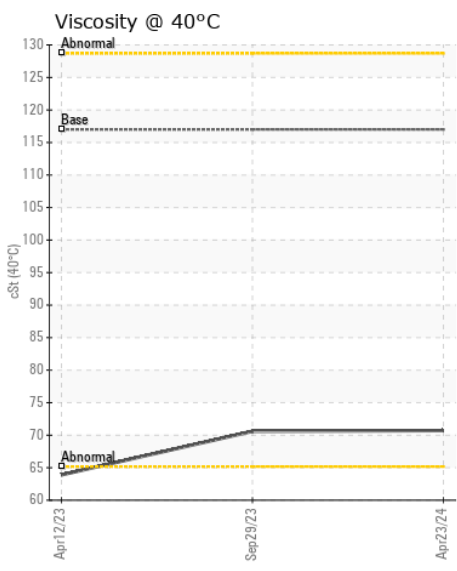
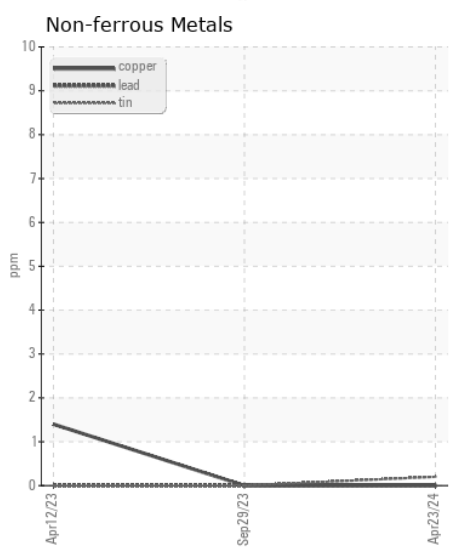
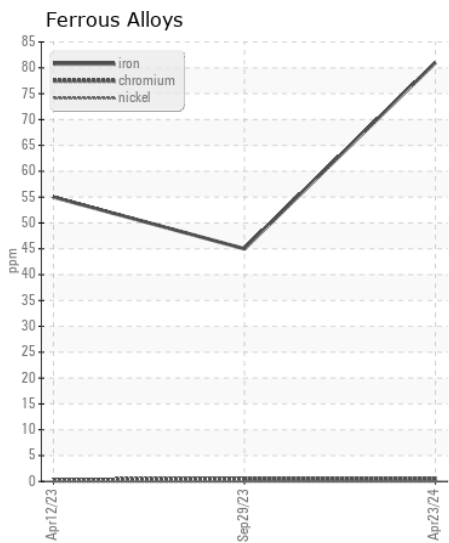
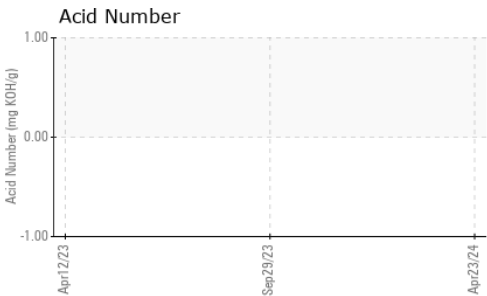
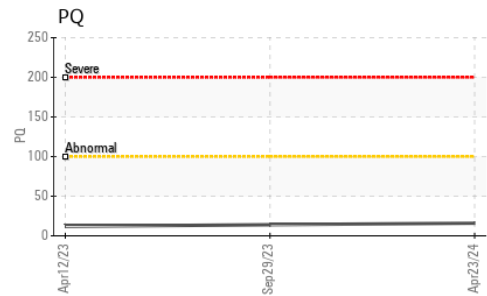
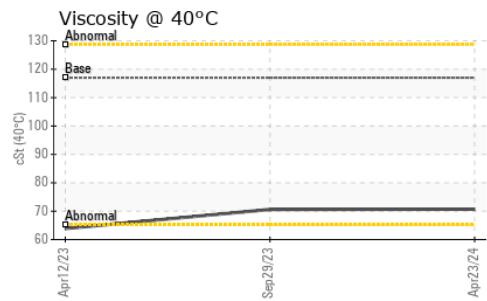
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	58	19	13
Potassium	ppm	ASTM D5185m	>20	0	2	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		2	3	3
Boron	ppm	ASTM D5185m		310	347	118
Barium	ppm	ASTM D5185m		2	0	0
Molybdenum	ppm	ASTM D5185m		258	248	137
Manganese	ppm	ASTM D5185m		1	1	2
Magnesium	ppm	ASTM D5185m		815	819	164
Calcium	ppm	ASTM D5185m		1525	1563	3760
Phosphorus	ppm	ASTM D5185m		993	925	1161
Zinc	ppm	ASTM D5185m		1074	1081	1353
Sulfur	ppm	ASTM D5185m		3860	3248	9056
Visc @ 40°C	cSt	ASTM D445	117	70.7	70.6	63.9



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0205876
Lab Number : 06160654
Unique Number : 10996077
Test Package : CONST (Additional Tests: ICP, KV40, PQ, PrtCount, SCREEN, TAN Ma

JRE - CHARLOTTE
 9550 STATESVILLE ROAD
 CHARLOTTE, NC
 US 28269
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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)