



Area

[W9108]

Machine Id

JOHN DEERE 160G 1FF160GXJMF058343

Component

Gearbox

Fluid

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (1 PNT)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: W9108)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0197266	JR0167518	JR0082419
Sample Date		Client Info		26 Jun 2024	28 May 2023	03 Nov 2022
Machine Age	hrs	Client Info		2466	2165	1993
Oil Age	hrs	Client Info		301	172	1993
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Chngd	Changed	Changed
Filter Changed		Client Info		Not Chngd	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		32	12	7
Iron	ppm	ASTM D5185m	>200	48	35	31
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	1	2	2
Lead	ppm	ASTM D5185m	>50	0	0	0
Copper	ppm	ASTM D5185m	>200	2	0	<1
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

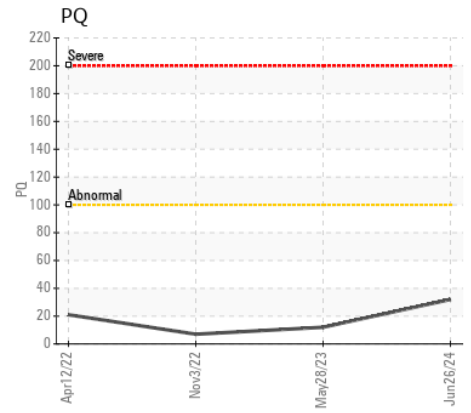
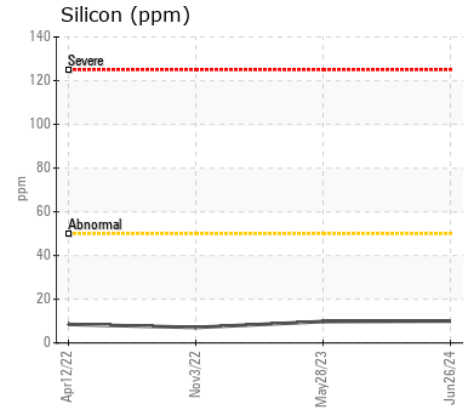
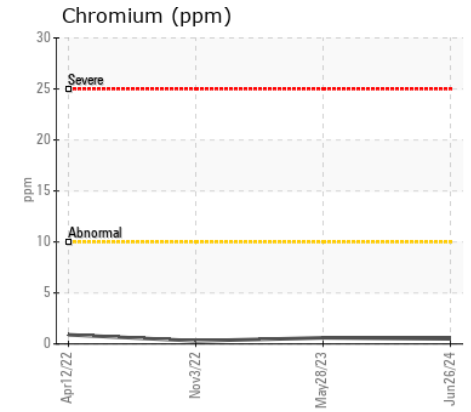
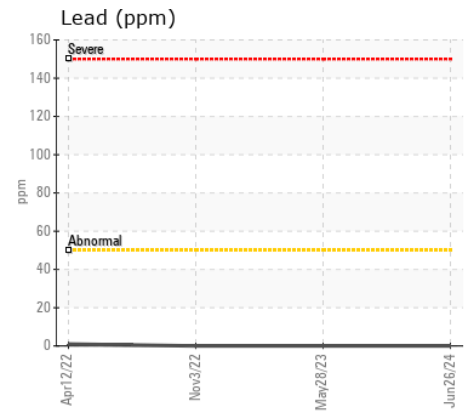
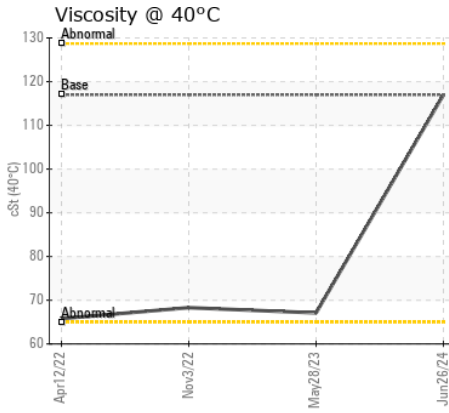
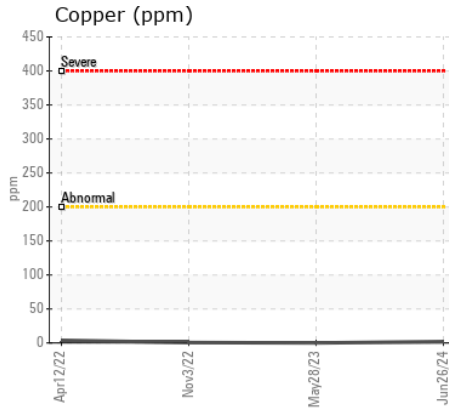
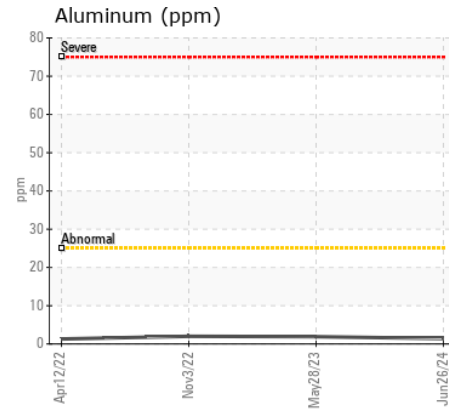
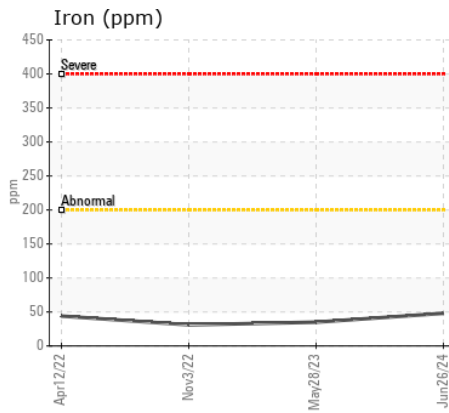
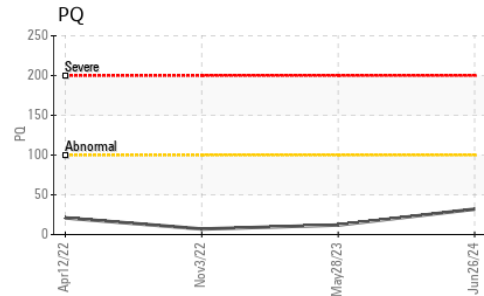
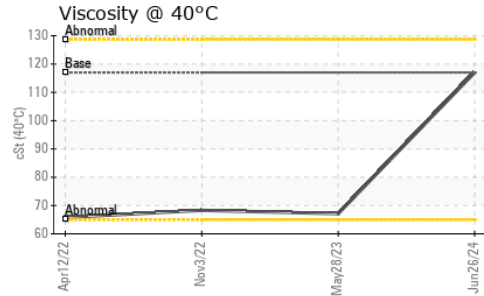
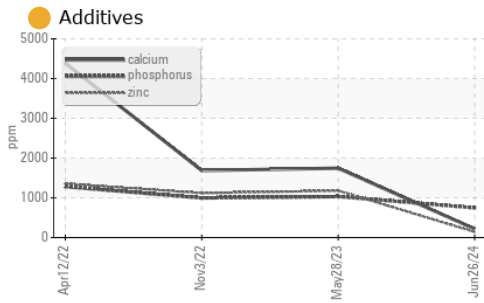
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	10	10	7
Potassium	ppm	ASTM D5185m	>20	4	<1	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

Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type.

Sodium	ppm	ASTM D5185m		4	3	0
Boron	ppm	ASTM D5185m		50	317	269
Barium	ppm	ASTM D5185m		1	<1	3
Molybdenum	ppm	ASTM D5185m		28	242	254
Manganese	ppm	ASTM D5185m		3	<1	<1
Magnesium	ppm	ASTM D5185m		86	811	726
Calcium	ppm	ASTM D5185m		219	1745	1687
Phosphorus	ppm	ASTM D5185m		747	1030	996
Zinc	ppm	ASTM D5185m		141	1178	1118
Sulfur	ppm	ASTM D5185m		18724	4610	4169
Visc @ 40°C	cSt	ASTM D445	117	117	67.1	68.3



Certificate L2367

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

Sample No. : JR0197266

Lab Number : 06223674

Unique Number : 11101871

Test Package : MOBCE (Additional Tests: PQ)

Received : 28 Jun 2024

Tested : 01 Jul 2024

Diagnosed : 01 Jul 2024 - Don Baldridge

JRE - HOPE MILLS/FAYETTEVILLE

5039 HWY 301 SOUTH

HOPE MILLS, NC

US 28348

Contact: FAYETTEVILLE SHOP

stephen.mullis@jamesriverequipment.com; canastasio@wearcheck.com

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)

T:

F: