



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[05W46514]
 Machine Id
JOHN DEERE 1FF350GXPKE814131
 Component
Right Final Drive
 Fluid
JOHN DEERE GL-5 80W90 (2 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0214333	JR0169996	JR0160455
Sample Date		Client Info		22 May 2024	18 Jul 2023	25 Jan 2023
Machine Age	hrs	Client Info		4980	3941	3430
Oil Age	hrs	Client Info		500	0	1500
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	SEVERE	SEVERE

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>1250	72	1948	1413
Iron	ppm	ASTM D5185m	>750	125	▲ 8482	▲ 4463
Chromium	ppm	ASTM D5185m	>9	2	▲ 70	▲ 29
Nickel	ppm	ASTM D5185m	>10	<1	▲ 19	7
Titanium	ppm	ASTM D5185m		1	102	49
Silver	ppm	ASTM D5185m		1	0	0
Aluminum	ppm	ASTM D5185m	>40	3	● 472	● 120
Lead	ppm	ASTM D5185m	>15	<1	1	0
Copper	ppm	ASTM D5185m	>40	1	19	10
Tin	ppm	ASTM D5185m	>10	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	5	2
White Metal	scalar	*Visual	NONE	NONE	▲ MODER	▲ MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

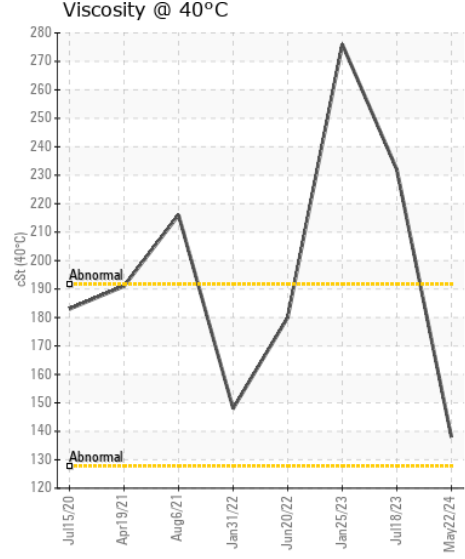
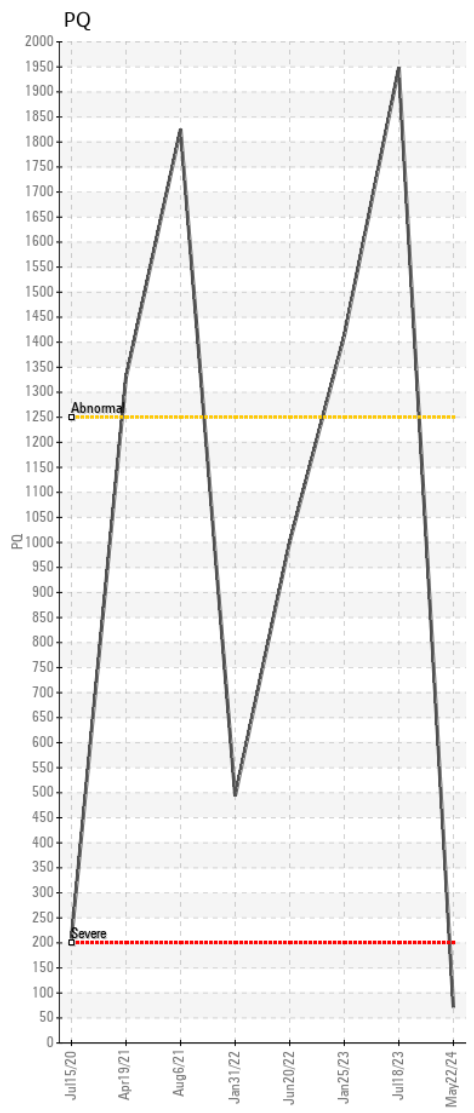
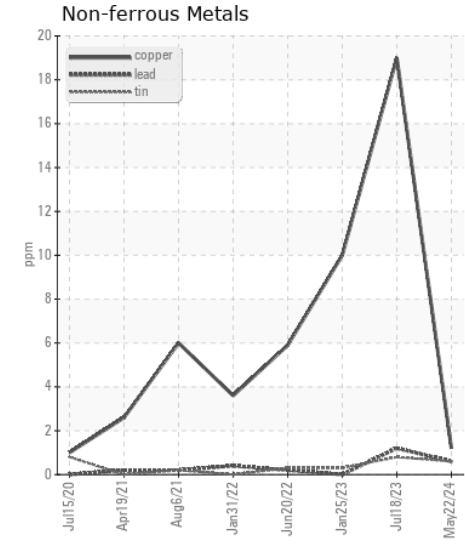
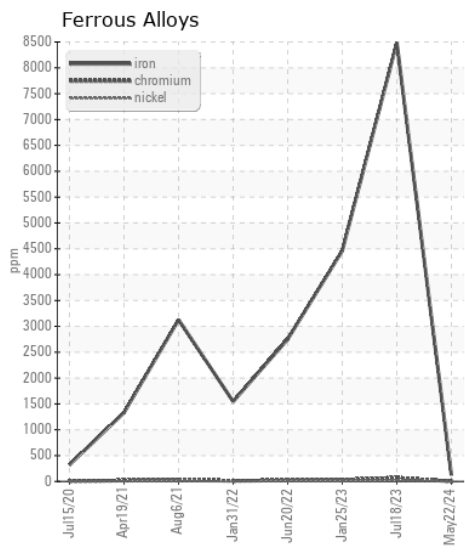
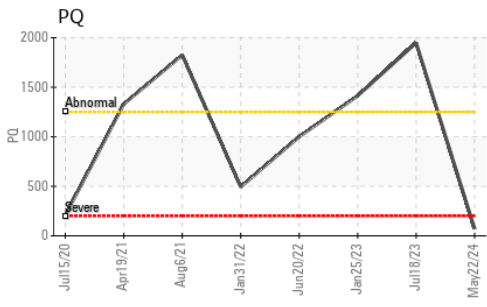
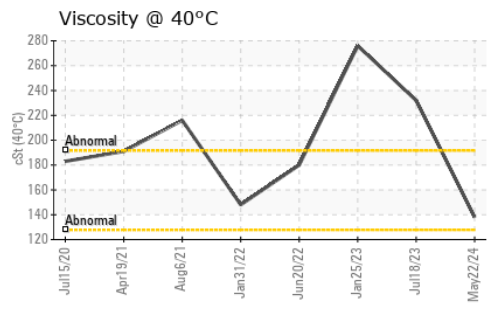
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	19	▲ 2747	▲ 1456
Potassium	ppm	ASTM D5185m	>20	9	130	72
Water		WC Method	>0.075	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	>0.075	NEG	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>51	<1	43	24
Boron	ppm	ASTM D5185m		5	28	17
Barium	ppm	ASTM D5185m		1	0	2
Molybdenum	ppm	ASTM D5185m		5	8	3
Manganese	ppm	ASTM D5185m		2	80	38
Magnesium	ppm	ASTM D5185m		16	48	29
Calcium	ppm	ASTM D5185m		31	68	52
Phosphorus	ppm	ASTM D5185m		307	357	320
Zinc	ppm	ASTM D5185m		22	16	21
Sulfur	ppm	ASTM D5185m		19860	20894	19117
Visc @ 40°C	cSt	ASTM D445		138	▲ 232	▲ 276



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0214333 **Received** : 24 May 2024
Lab Number : 06191290 **Tested** : 29 May 2024
Unique Number : 11048042 **Diagnosed** : 29 May 2024 - Sean Felton
Test Package : CONST (Additional Tests: PQ)

FITZGERALD EXCAVATING
 PO BOX 2168
 WINCHESTER, VA
 US 22604
 Contact: Service Manager

Certificate L2367
 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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