



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[05W46859]

Machine Id

SENNEBOGEN 821M 821.0.2814

Component

Gearbox

Fluid

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

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0214347	JR0208462	JR0199343
Sample Date		Client Info		17 May 2024	12 Mar 2024	05 Jan 2024
Machine Age	hrs	Client Info		4551	4023	3489
Oil Age	hrs	Client Info		528	1000	2462
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		16	15	17
Iron	ppm	ASTM D5185m	>200	20	18	13
Chromium	ppm	ASTM D5185m	>10	<1	<1	0
Nickel	ppm	ASTM D5185m	>10	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		1	0	0
Aluminum	ppm	ASTM D5185m	>25	6	4	4
Lead	ppm	ASTM D5185m	>50	1	<1	<1
Copper	ppm	ASTM D5185m	>200	56	41	35
Tin	ppm	ASTM D5185m	>10	2	1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

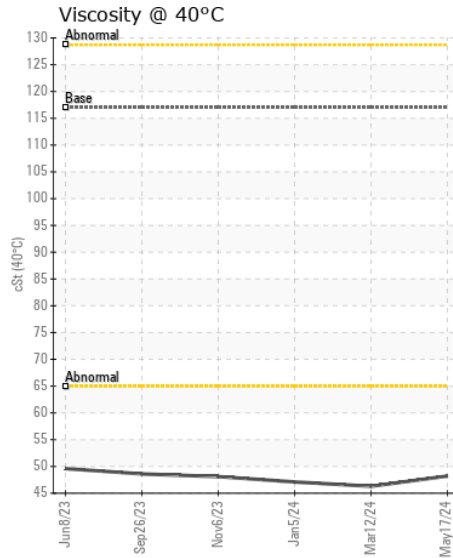
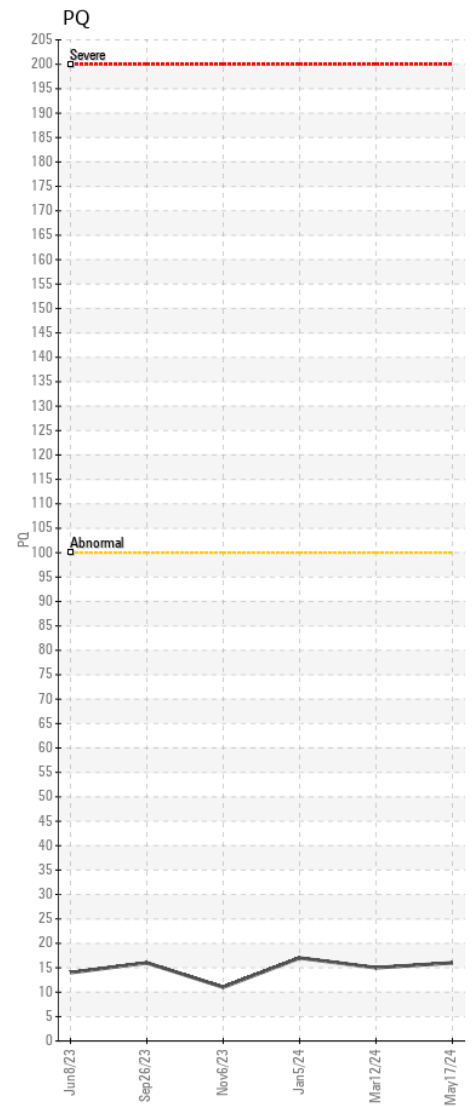
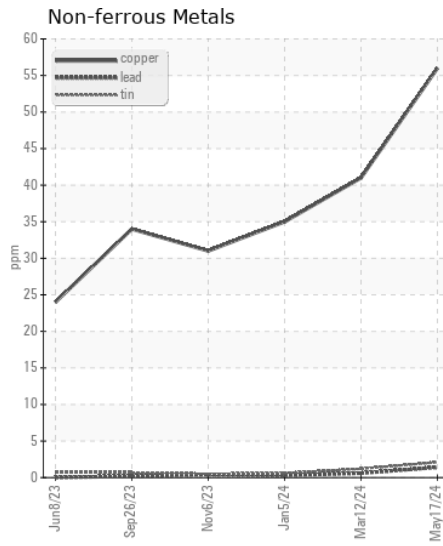
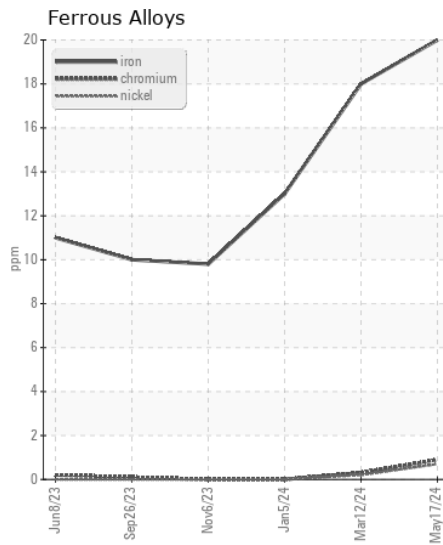
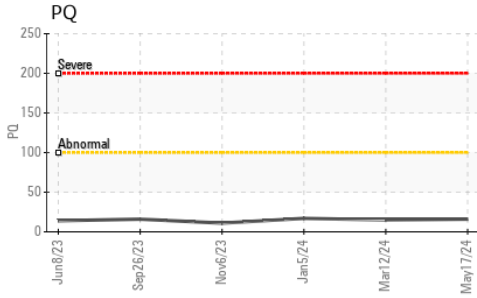
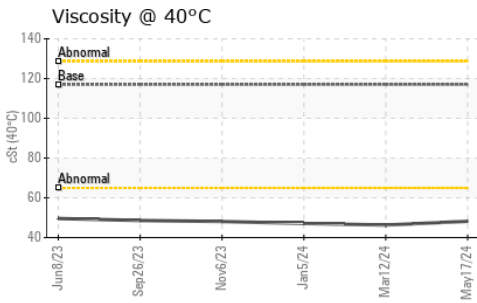
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>50	4	4	3
Potassium	ppm	ASTM D5185m	>20	9	6	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 condition of the fluid is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		60	47	44
Boron	ppm	ASTM D5185m		4	1	3
Barium	ppm	ASTM D5185m		0	<1	<1
Molybdenum	ppm	ASTM D5185m		<1	<1	0
Manganese	ppm	ASTM D5185m		12	10	9
Magnesium	ppm	ASTM D5185m		9	7	10
Calcium	ppm	ASTM D5185m		4005	3304	3038
Phosphorus	ppm	ASTM D5185m		1360	1149	1064
Zinc	ppm	ASTM D5185m		1439	1134	1153
Sulfur	ppm	ASTM D5185m		14227	10783	8734
Visc @ 40°C	cSt	ASTM D445	117	48.2	46.3	47.1



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0214347 **Received** : 21 May 2024
Lab Number : 06186909 **Tested** : 23 May 2024
Unique Number : 11043661 **Diagnosed** : 23 May 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

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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