



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 180G 1FF180GXEJF020853

Component
Gearbox

Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: W13167)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0160901	JR0135971	JR0121717
Sample Date		Client Info		22 Mar 2023	07 Nov 2022	13 Jun 2022
Machine Age	hrs	Client Info		3521	3019	2474
Oil Age	hrs	Client Info		502	1070	525
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	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		27	64	102
Iron	ppm	ASTM D5185m	>200	95	▲ 303	▲ 251
Chromium	ppm	ASTM D5185m	>10	<1	4	3
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		<1	2	1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	3	14	11
Lead	ppm	ASTM D5185m	>50	0	<1	0
Copper	ppm	ASTM D5185m	>200	<1	<1	<1
Tin	ppm	ASTM D5185m	>10	0	<1	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

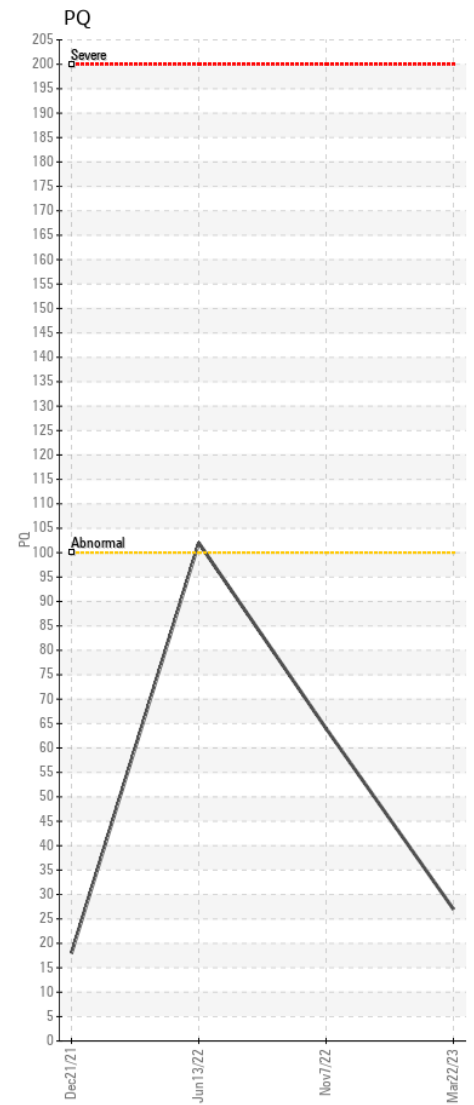
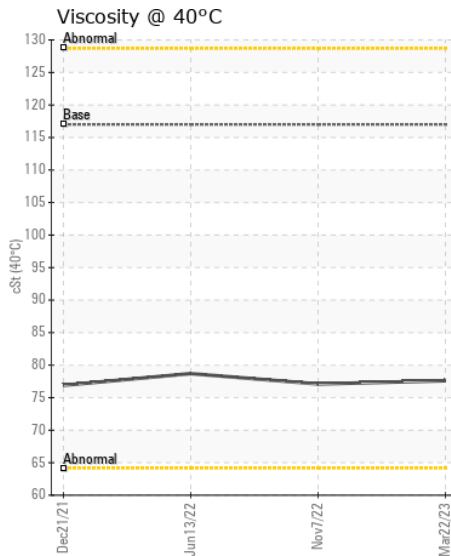
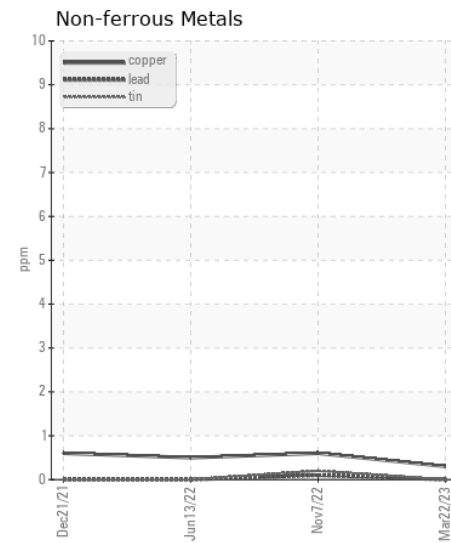
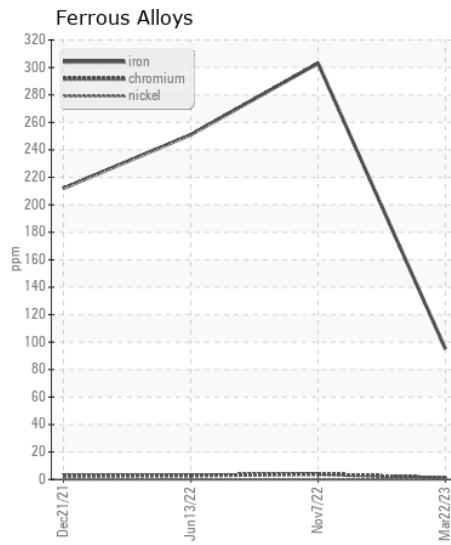
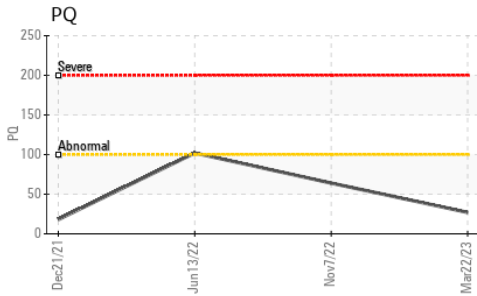
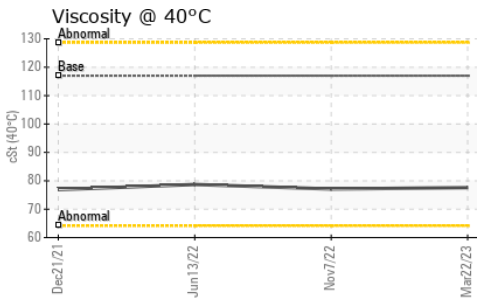
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	15	▲ 73	▲ 61
Potassium	ppm	ASTM D5185m	>20	<1	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	2	2
Boron	ppm	ASTM D5185m		303	267	436
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m		233	248	264
Manganese	ppm	ASTM D5185m		1	3	3
Magnesium	ppm	ASTM D5185m		784	743	772
Calcium	ppm	ASTM D5185m		1396	1405	1486
Phosphorus	ppm	ASTM D5185m		939	862	915
Zinc	ppm	ASTM D5185m		1029	983	1062
Sulfur	ppm	ASTM D5185m		3561	3635	3091
Visc @ 40°C	cSt	ASTM D445	117	77.6	77.1	78.7



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0160901 **Received** : 24 Mar 2023
Lab Number : 05801207 **Tested** : 27 Mar 2023
Unique Number : 10390891 **Diagnosed** : 28 Mar 2023 - Doug Bogart
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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