



Machine Id
JOHN DEERE 844K DW844KX626780

Component
Front Differential

Fluid
JOHN DEERE GL-5 80W90 (18 GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0202344	JR0190957	JR0181569
Sample Date		Client Info		27 Feb 2024	08 Nov 2023	03 Aug 2023
Machine Age	hrs	Client Info		31757	31266	30761
Oil Age	hrs	Client Info		0	30787	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		None	Not Changd	None
Sample Status				ABNORMAL	ATTENTION	NORMAL

WEAR

Gear wear is indicated. All other component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		350	7	11
Iron	ppm	ASTM D5185m	>500	▲ 1111	6	3
Chromium	ppm	ASTM D5185m	>10	6	0	0
Nickel	ppm	ASTM D5185m	>10	5	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	<1	<1
Lead	ppm	ASTM D5185m	>25	<1	0	0
Copper	ppm	ASTM D5185m	>100	8	0	0
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

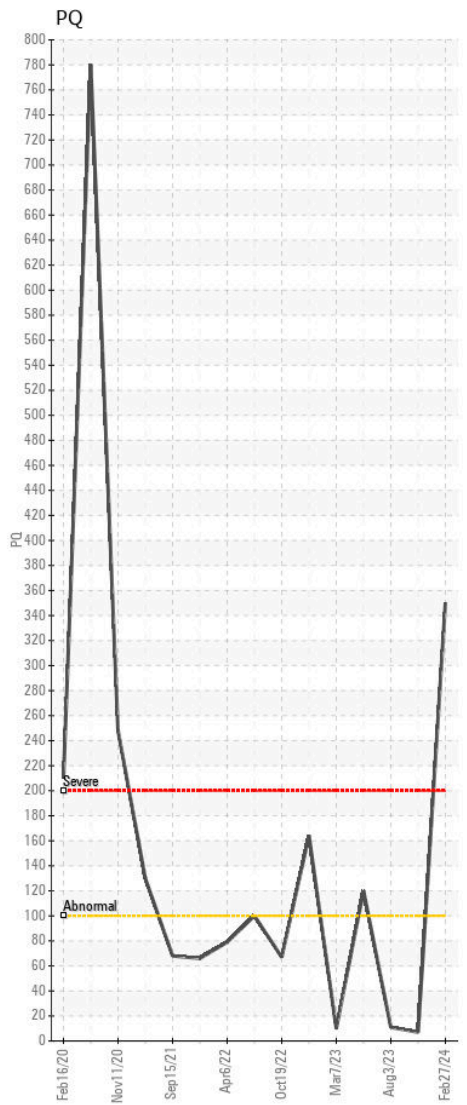
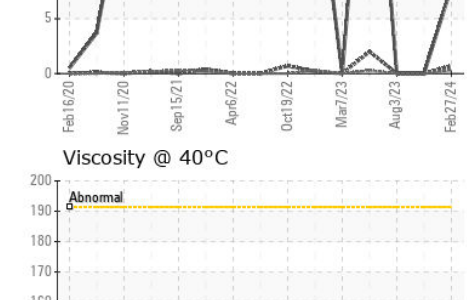
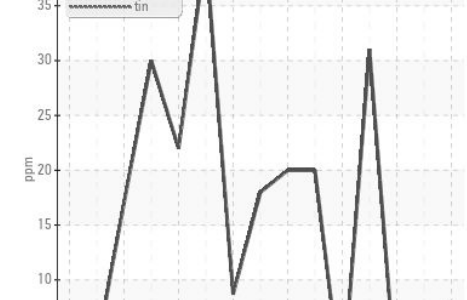
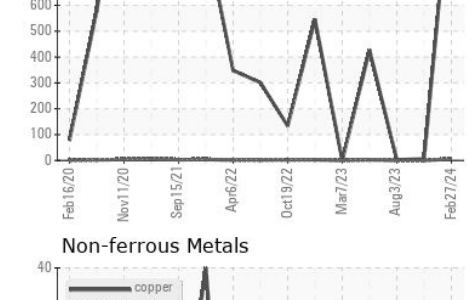
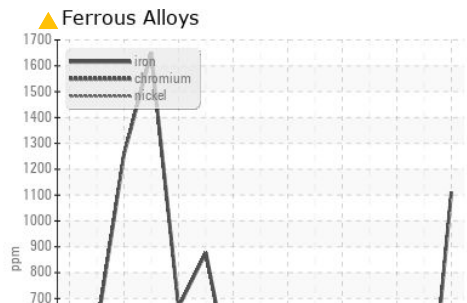
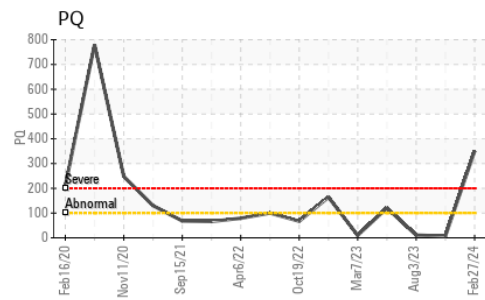
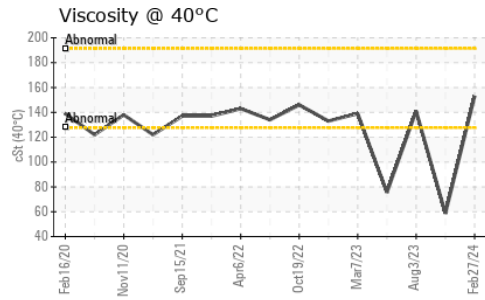
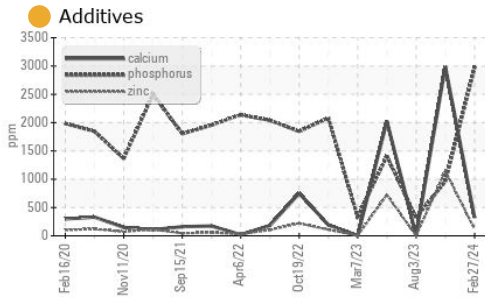
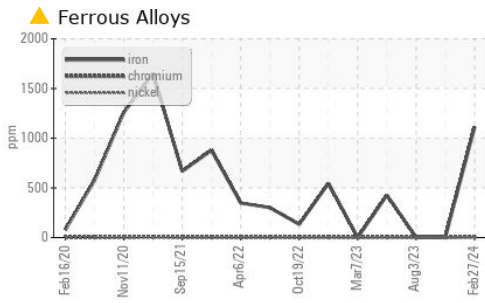
There is no indication of any contamination in the oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Silicon	ppm	ASTM D5185m	>75	13	5	1
Potassium	ppm	ASTM D5185m	>20	1	<1	<1
Water		WC Method	>.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	>.2	NEG	NEG	NEG

FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sodium	ppm	ASTM D5185m		6	0	0
Boron	ppm	ASTM D5185m		87	0	0
Barium	ppm	ASTM D5185m		0	2	0
Molybdenum	ppm	ASTM D5185m		2	0	0
Manganese	ppm	ASTM D5185m		8	<1	0
Magnesium	ppm	ASTM D5185m		● 275	● 92	0
Calcium	ppm	ASTM D5185m		● 321	● 2986	14
Phosphorus	ppm	ASTM D5185m		● 2962	● 957	321
Zinc	ppm	ASTM D5185m		● 117	● 1145	0
Sulfur	ppm	ASTM D5185m		23515	● 3284	21794
Visc @ 40°C	cSt	ASTM D445		153	● 58.7	141



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0202344 **Received** : 29 Feb 2024
Lab Number : 06104564 **Tested** : 01 Mar 2024
Unique Number : 10902794 **Diagnosed** : 04 Mar 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

BENSON - MARTIN MARIETTA
 13661 RALEIGH RD
 BENSON, NC
 US 27504
 Contact: ROBERT PRUITT
 robert.pruitt@martinmarietta.com
 T:
 F: (919)894-2401

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)