



[W53146 CRANEMASTERS]

Machine Id
JOHN DEERE 331G 1T0331GKJLF371355

Component
Left Final Drive

Fluid
JOHN DEERE GL-5 80W90 (--- QTS)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0225170	JR0164295	JR0148037
Sample Date		Client Info		12 Jul 2024	04 Aug 2023	30 Dec 2022
Machine Age	hrs	Client Info		1938	1445	977
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>1250	39	56	54
Iron	ppm	ASTM D5185m	>750	683	▲ 1372	746
Chromium	ppm	ASTM D5185m	>9	7	▲ 14	10
Nickel	ppm	ASTM D5185m	>10	5	8	8
Titanium	ppm	ASTM D5185m		2	1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>40	● 17	● 27	9
Lead	ppm	ASTM D5185m	>15	<1	<1	0
Copper	ppm	ASTM D5185m	>40	1	2	1
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

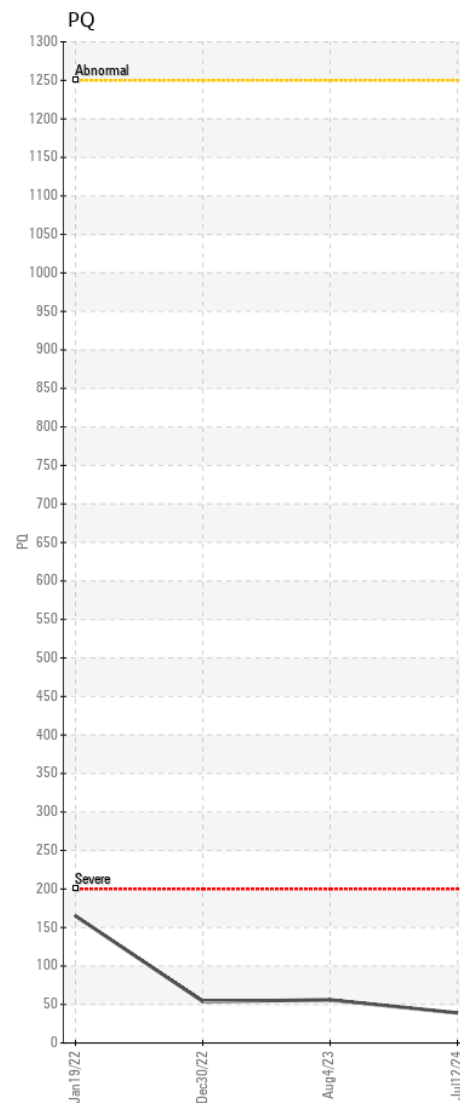
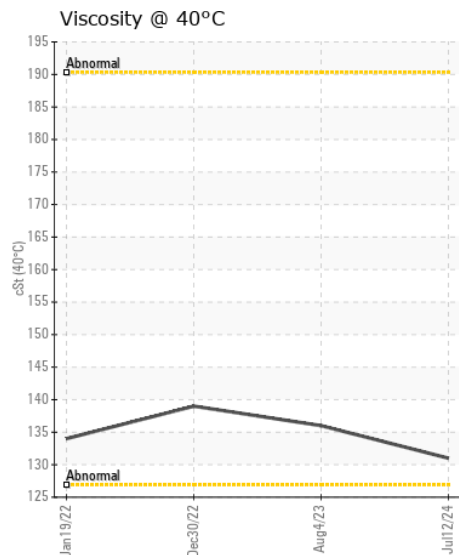
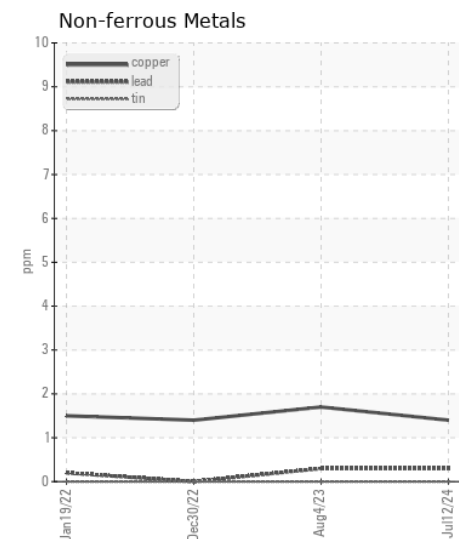
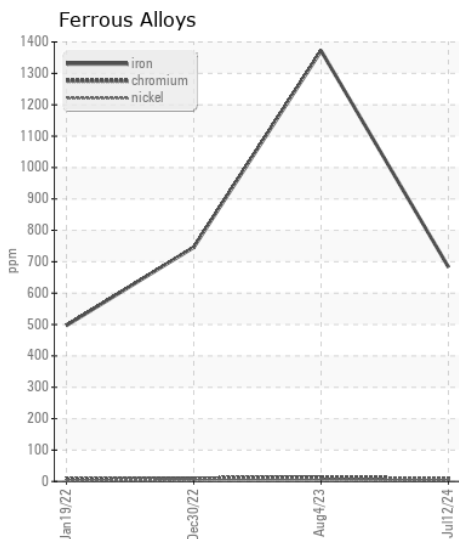
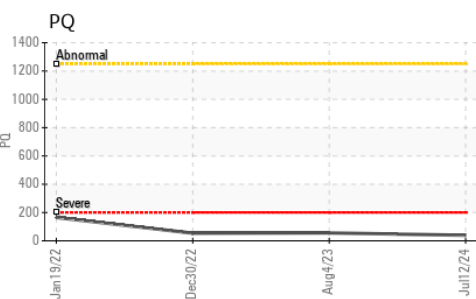
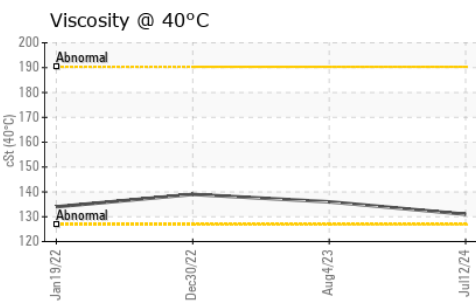
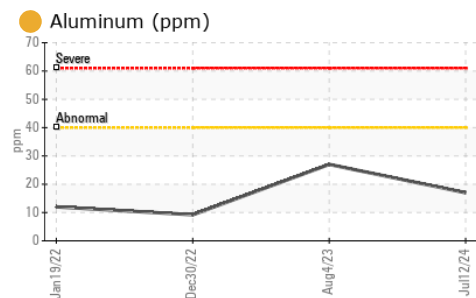
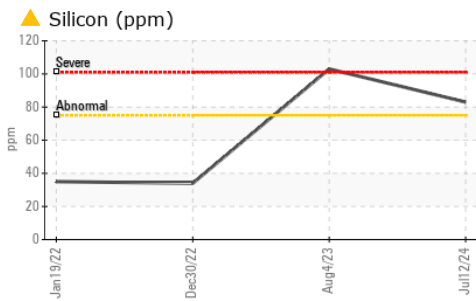
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	▲ 83	▲ 103	34
Potassium	ppm	ASTM D5185m	>20	17	27	19
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	4	11	9
Boron	ppm	ASTM D5185m		33	157	73
Barium	ppm	ASTM D5185m		12	35	50
Molybdenum	ppm	ASTM D5185m		2	3	2
Manganese	ppm	ASTM D5185m		7	13	8
Magnesium	ppm	ASTM D5185m		6	4	6
Calcium	ppm	ASTM D5185m		65	19	24
Phosphorus	ppm	ASTM D5185m		495	974	662
Zinc	ppm	ASTM D5185m		33	17	28
Sulfur	ppm	ASTM D5185m		15046	24527	24790
Visc @ 40°C	cSt	ASTM D445		131	136	139



Certificate L2367

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

Sample No. : JR0225170

Lab Number : 06239359

Unique Number : 11128193

Test Package : CONST (Additional Tests: PQ)

Received : 17 Jul 2024

Tested : 18 Jul 2024

Diagnosed : 19 Jul 2024 - Don Baldrige

JRE - ASHLAND

11047 LEADBETTER RD

ASHLAND, VA

US 23005

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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)