James River Equipment

OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 325G 1T0325GKCKJ366267
Component
Left Final Drive
Fluid
JOHN DEERE GL-5 80W90 (--- GAL)

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. We recommend an early resample to monitor this condition.

WEAR

Gear wear is indicated. The very high ferrous density (PQ) index indicates that severe wear is occurring.

CONTAMINATION

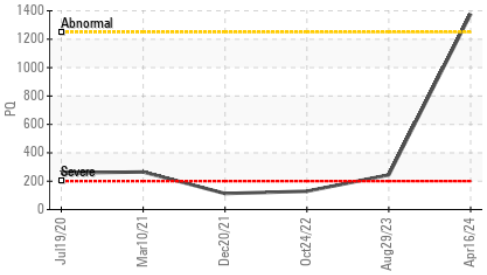
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

FLUID CONDITION

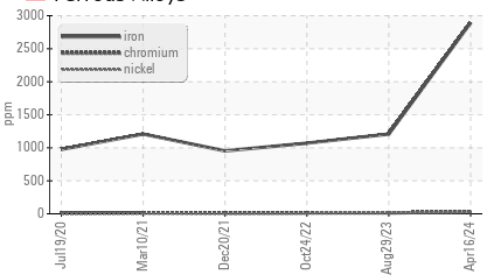
The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0208003	JR0185157	JR0149411
Sample Date		Client Info		16 Apr 2024	29 Aug 2023	24 Oct 2022
Machine Age	hrs	Client Info		3199	2697	2024
Oil Age	hrs	Client Info		1175	673	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	ABNORMAL	ABNORMAL
PQ		ASTM D8184	>1250	▲ 1377	244	129
Iron	ppm	ASTM D5185m	>750	▲ 2893	1208	▲ 1070
Chromium	ppm	ASTM D5185m	>9	▲ 28	14	▲ 13
Nickel	ppm	ASTM D5185m	>10	▲ 23	10	9
Titanium	ppm	ASTM D5185m		▲ 31	7	4
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>40	● 502	● 109	● 84
Lead	ppm	ASTM D5185m	>15	<1	0	0
Copper	ppm	ASTM D5185m	>40	4	2	2
Tin	ppm	ASTM D5185m	>10	0	0	<1
Vanadium	ppm	ASTM D5185m		1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	▲ 1276	▲ 235	▲ 142
Potassium	ppm	ASTM D5185m	>20	121	26	24
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
Sodium	ppm	ASTM D5185m	>51	21	4	6
Boron	ppm	ASTM D5185m		32	22	31
Barium	ppm	ASTM D5185m		15	12	22
Molybdenum	ppm	ASTM D5185m		7	3	2
Manganese	ppm	ASTM D5185m		26	12	11
Magnesium	ppm	ASTM D5185m		33	17	9
Calcium	ppm	ASTM D5185m		107	21	18
Phosphorus	ppm	ASTM D5185m		366	364	434
Zinc	ppm	ASTM D5185m		75	57	65
Sulfur	ppm	ASTM D5185m		22764	20710	21900
Visc @ 40°C	cSt	ASTM D445		135	133	130

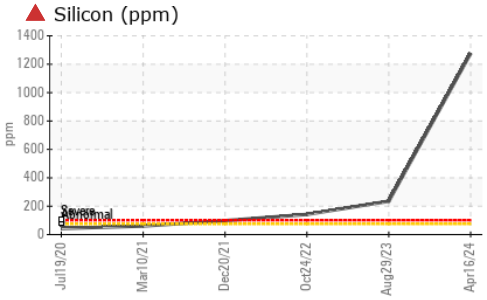
PQ



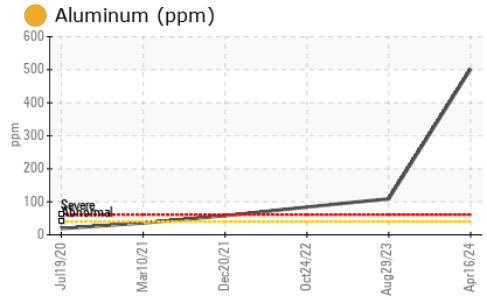
Ferrous Alloys



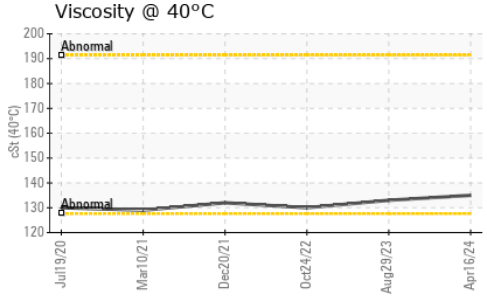
Silicon (ppm)



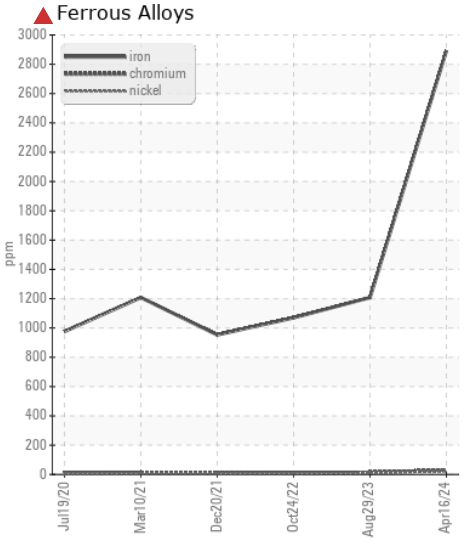
Aluminum (ppm)



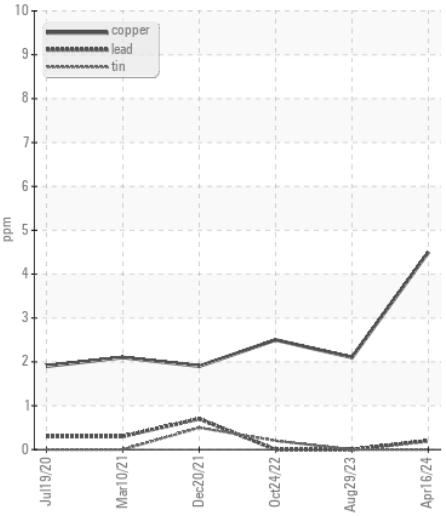
Viscosity @ 40°C



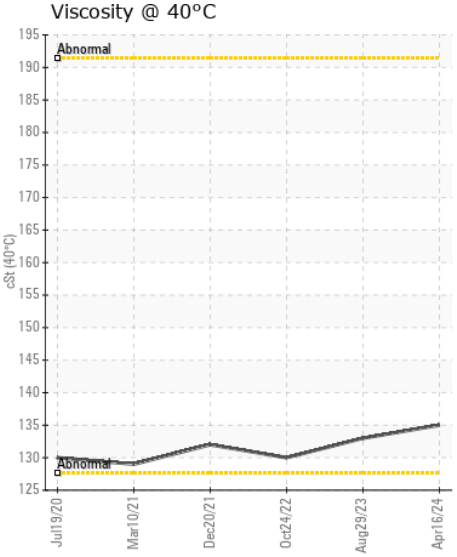
Ferrous Alloys



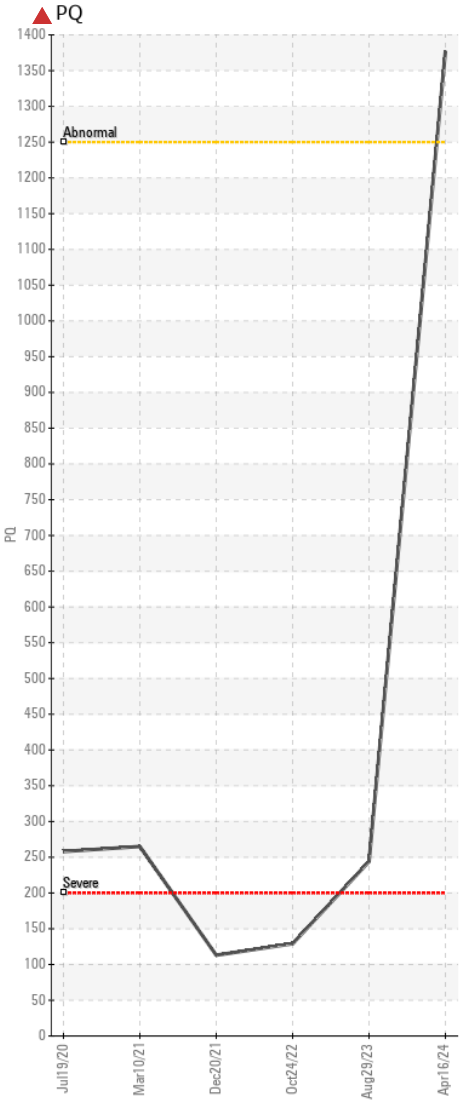
Non-ferrous Metals



Viscosity @ 40°C



PQ



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0208003
Lab Number : 06158525
Unique Number : 10993948
Test Package : CONST (Additional Tests: PQ)

Received : 23 Apr 2024
Tested : 29 Apr 2024
Diagnosed : 29 Apr 2024 - Jonathan Hester

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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