James River Equipment

OIL ANALYSIS REPORT

WEAR	ATTENTION
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
[46189]
Machine Id
JOHN DEERE 700L 1T0700LXPNF417837
Component
Right Final Drive
Fluid
JOHN DEERE HY-GARD HYD/TRANS (--- 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. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

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

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**JR0211267**	JR0199064	JR0189945
Sample Date		Client Info		**19 Apr 2024**	17 Jan 2024	11 Oct 2023
Machine Age	hrs	Client Info		**3975**	3454	2941
Oil Age	hrs	Client Info		**3462**	513	1000
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				**ABNORMAL**	NORMAL	NORMAL
PQ		ASTM D8184	>1250	**179**	83	65
Iron	ppm	ASTM D5185m	>750	**396**	92	103
Chromium	ppm	ASTM D5185m	>9	**4**	<1	2
Nickel	ppm	ASTM D5185m	>10	**0**	0	<1
Titanium	ppm	ASTM D5185m		**6**	1	<1
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>40	● **59**	9	0
Lead	ppm	ASTM D5185m	>15	**0**	0	0
Copper	ppm	ASTM D5185m	>40	**2**	0	<1
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
Silicon	ppm	ASTM D5185m	>75	▲ **212**	40	12
Potassium	ppm	ASTM D5185m	>20	**14**	4	2
Water		WC Method	>0.075	**NEG**	NEG	NEG
Silt	scalar	*Visual	NONE	**MODER**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	LIGHT	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	**4**	0	0
Boron	ppm	ASTM D5185m	6	**8**	6	7
Barium	ppm	ASTM D5185m	0	**2**	0	0
Molybdenum	ppm	ASTM D5185m	0	**7**	5	7
Manganese	ppm	ASTM D5185m		**5**	<1	1
Magnesium	ppm	ASTM D5185m	145	**128**	112	112
Calcium	ppm	ASTM D5185m	3570	**3396**	3058	3281
Phosphorus	ppm	ASTM D5185m	1290	**1065**	966	1040
Zinc	ppm	ASTM D5185m	1640	**1207**	1143	1239
Sulfur	ppm	ASTM D5185m		**4389**	3457	3963
Visc @ 40°C	cSt	ASTM D445	57.0	**51.8**	53.1	52.1

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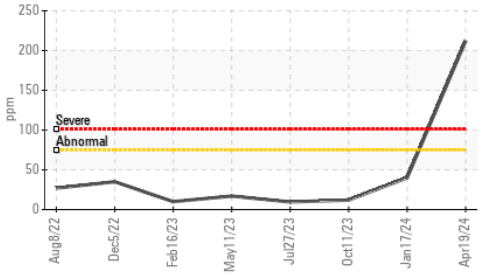
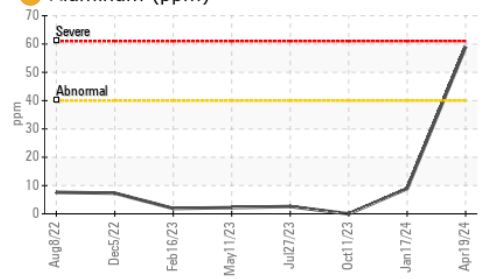
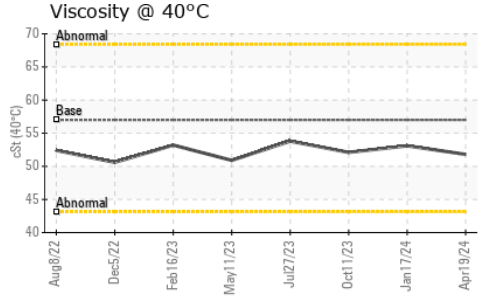
Silicon (ppm)



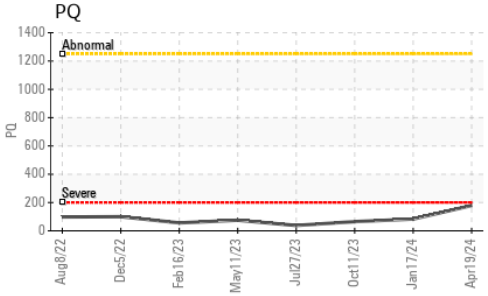
Aluminum (ppm)



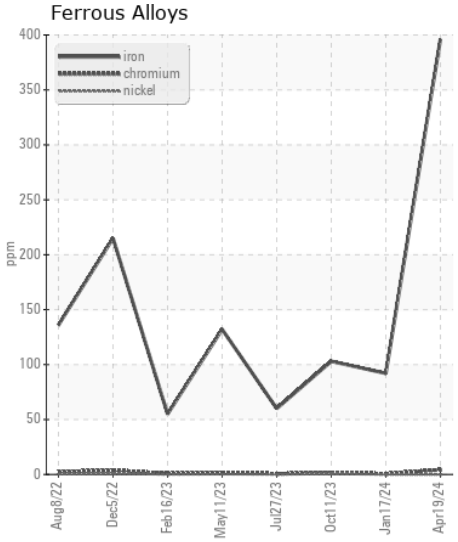
Viscosity @ 40°C



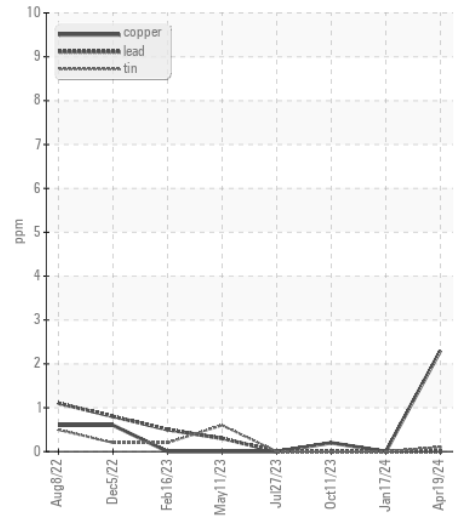
PQ



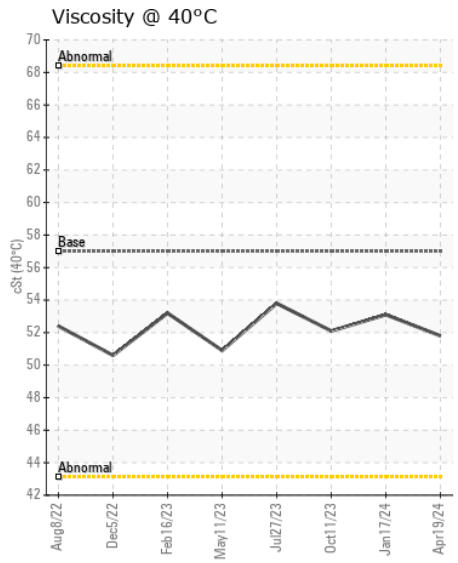
Ferrous Alloys



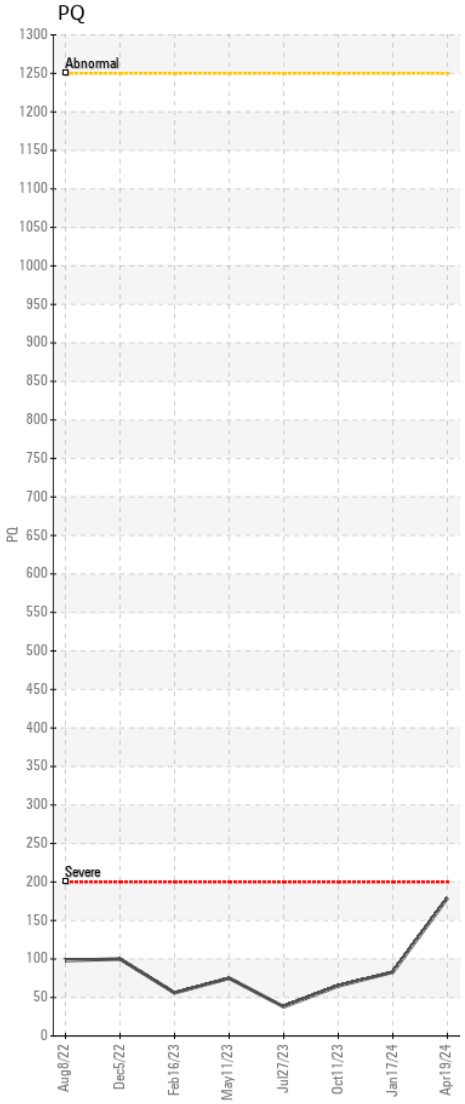
Non-ferrous Metals



Viscosity @ 40°C



PQ



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0211267
Lab Number : 06156273
Unique Number : 10991696
Test Package : CONST (Additional Tests: PQ)

Received : 22 Apr 2024
Tested : 23 Apr 2024
Diagnosed : 24 Apr 2024 - Sean Felton

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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