James River Equipment

OIL ANALYSIS REPORT

WEAR	ATTENTION
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 850L 1T0850LXCMF392469
Component
Right Outer 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. We recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

CONTAMINATION

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

FLUID CONDITION

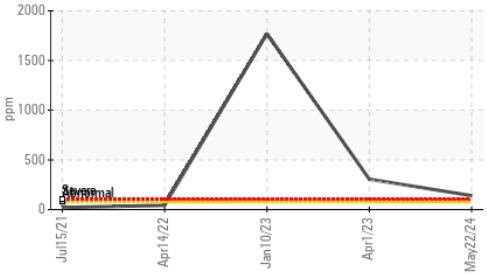
The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0200370	JR0180205	JR0148304
Sample Date		Client Info		22 May 2024	01 Apr 2023	10 Jan 2023
Machine Age	hrs	Client Info		4965	3961	2952
Oil Age	hrs	Client Info		0	1985	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				SEVERE	SEVERE	SEVERE
PQ		ASTM D8184	>1250	507	134	▲ 1914
Iron	ppm	ASTM D5185m	>750	607	460	▲ 2657
Chromium	ppm	ASTM D5185m	>9	3	2	▲ 10
Nickel	ppm	ASTM D5185m	>10	4	3	▲ 18
Titanium	ppm	ASTM D5185m		2	5	33
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>40	● 15	● 77	● 405
Lead	ppm	ASTM D5185m	>15	<1	<1	<1
Copper	ppm	ASTM D5185m	>40	1	<1	5
Tin	ppm	ASTM D5185m	>10	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	<1	1
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	▲ 140	▲ 306	▲ 1769
Potassium	ppm	ASTM D5185m	>20	5	14	73
Water		WC Method	>0.075	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	LIGHT	MODER	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	0	5	22
Boron	ppm	ASTM D5185m	6	0	2	2
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	1	3	3
Manganese	ppm	ASTM D5185m		5	4	20
Magnesium	ppm	ASTM D5185m	145	109	116	102
Calcium	ppm	ASTM D5185m	3570	3555	3438	3329
Phosphorus	ppm	ASTM D5185m	1290	953	1003	986
Zinc	ppm	ASTM D5185m	1640	1304	1224	1178
Sulfur	ppm	ASTM D5185m		3794	4167	3598
Visc @ 40°C	cSt	ASTM D445	57.0	55.6	56.5	58.1

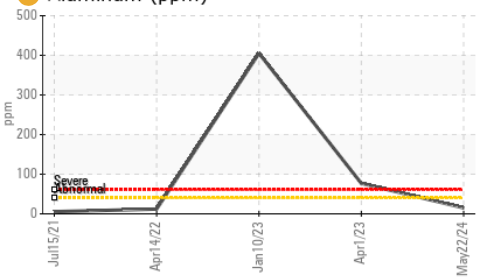
Report Id: JAMASH [WUSCAR] 06189519 (Generated: 05/28/2024 16:30:27) Rev: 1

Contact/Location: DAVID ZIEG - JAMASH

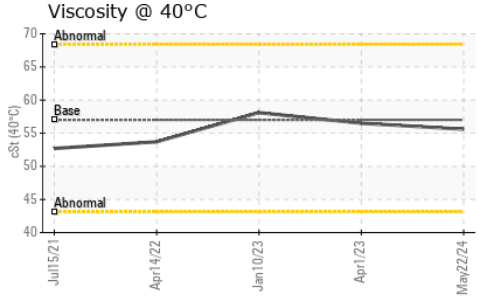
Silicon (ppm)



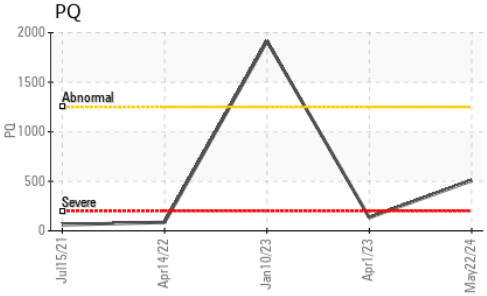
Aluminum (ppm)



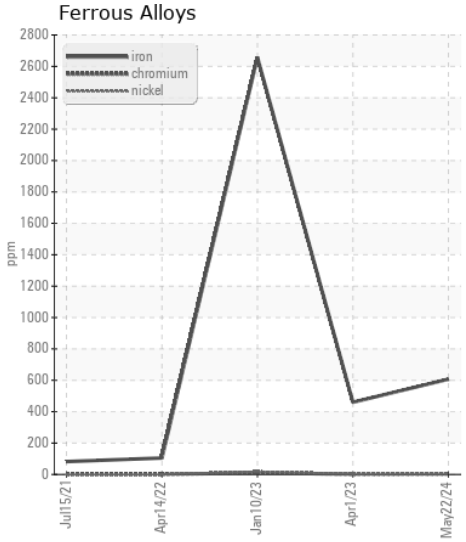
Viscosity @ 40°C



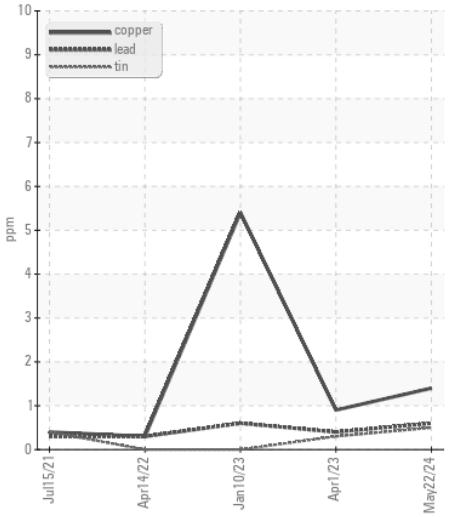
PQ



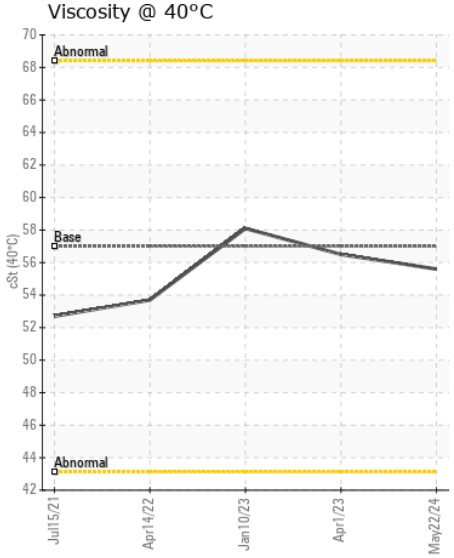
Ferrous Alloys



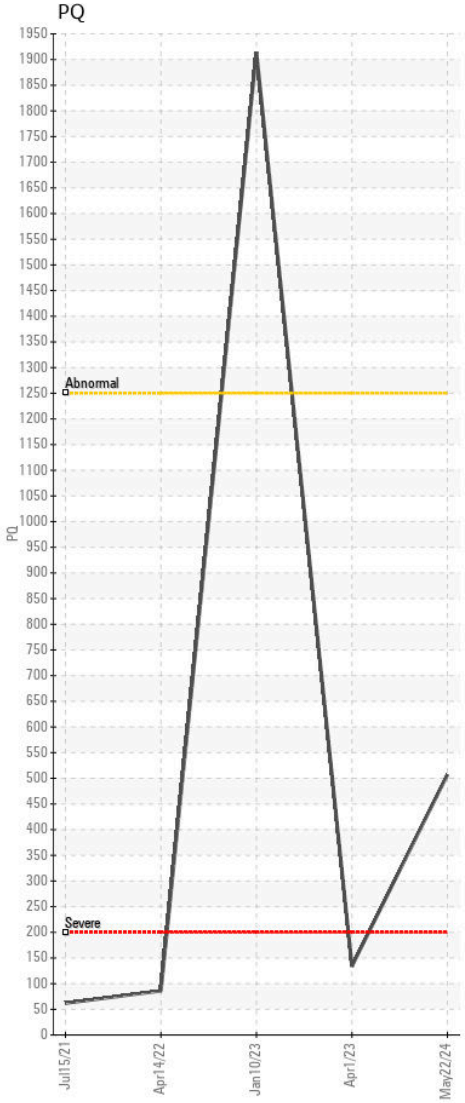
Non-ferrous Metals



Viscosity @ 40°C



PQ



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0200370
Lab Number : 06189519
Unique Number : 11046271
Test Package : CONST (Additional Tests: PQ)

Received : 23 May 2024
Tested : 24 May 2024
Diagnosed : 28 May 2024 - Don Baldridge

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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