James River Equipment

OIL ANALYSIS REPORT

WEAR	ATTENTION
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 850L 1T0850LXVPF446530
Component
Left 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

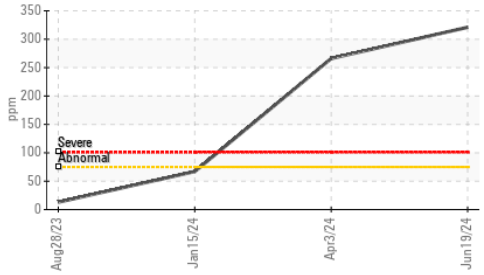
The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0218586	JR0211069	JR0199097
Sample Date		Client Info		19 Jun 2024	03 Apr 2024	15 Jan 2024
Machine Age	hrs	Client Info		1987	1449	983
Oil Age	hrs	Client Info		1521	466	983
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		None	N/A	N/A
Sample Status				SEVERE	ABNORMAL	NORMAL
PQ		ASTM D8184	>1250	347	283	220
Iron	ppm	ASTM D5185m	>750	571	418	194
Chromium	ppm	ASTM D5185m	>9	3	2	2
Nickel	ppm	ASTM D5185m	>10	5	<1	1
Titanium	ppm	ASTM D5185m		8	6	1
Silver	ppm	ASTM D5185m		<1	0	<1
Aluminum	ppm	ASTM D5185m	>40	115	86	22
Lead	ppm	ASTM D5185m	>15	1	0	<1
Copper	ppm	ASTM D5185m	>40	2	1	1
Tin	ppm	ASTM D5185m	>10	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	321	266	67
Potassium	ppm	ASTM D5185m	>20	33	21	5
Water		WC Method	>0.075	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	MODER	MODER	LIGHT
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	11	9	3
Boron	ppm	ASTM D5185m	6	9	6	1
Barium	ppm	ASTM D5185m	0	2	0	4
Molybdenum	ppm	ASTM D5185m	0	6	5	0
Manganese	ppm	ASTM D5185m		6	4	2
Magnesium	ppm	ASTM D5185m	145	132	131	103
Calcium	ppm	ASTM D5185m	3570	3575	3561	3377
Phosphorus	ppm	ASTM D5185m	1290	1091	1066	1008
Zinc	ppm	ASTM D5185m	1640	1254	1242	1190
Sulfur	ppm	ASTM D5185m		3979	3976	3491
Visc @ 40°C	cSt	ASTM D445	57.0	54.0	55.3	53.7

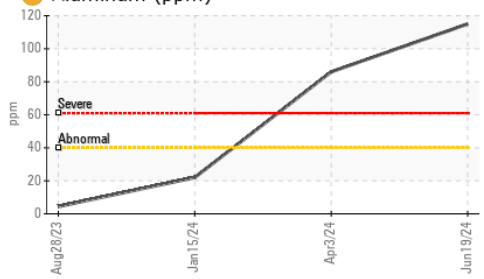
Report Id: BSSWAR [WUSCAR] 06218571 (Generated: 06/29/2024 20:58:32) Rev: 1

Submitted By: TECHNICIAN ACCOUNT

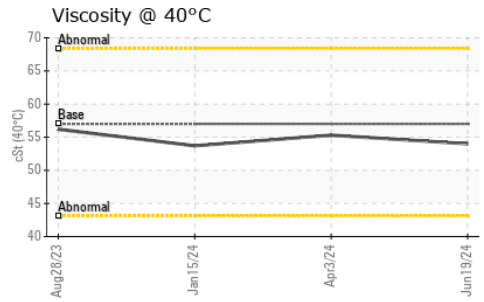
Silicon (ppm)



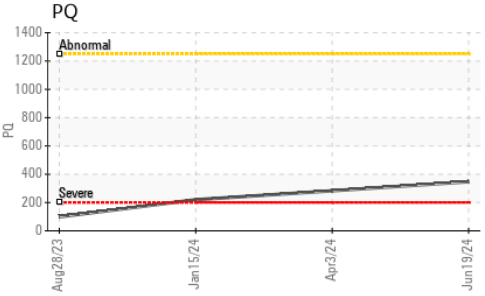
Aluminum (ppm)



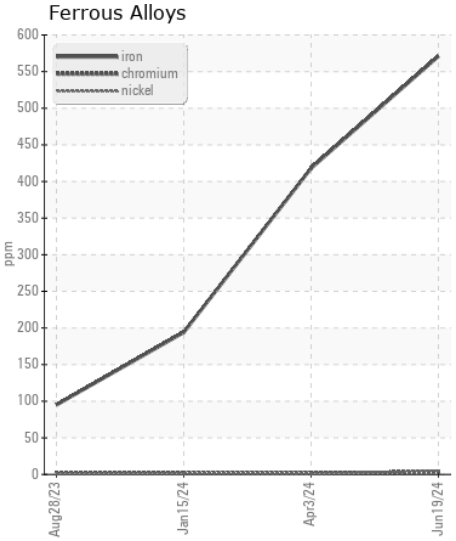
Viscosity @ 40°C



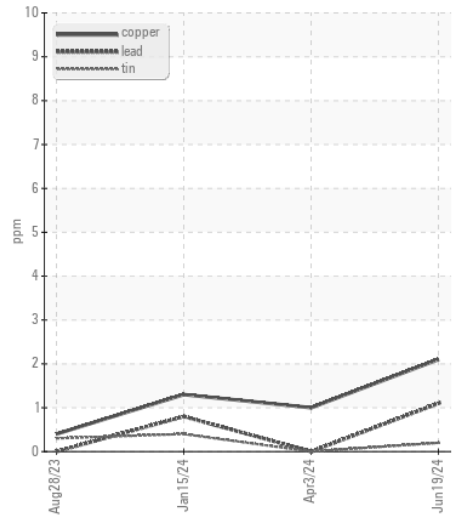
PQ



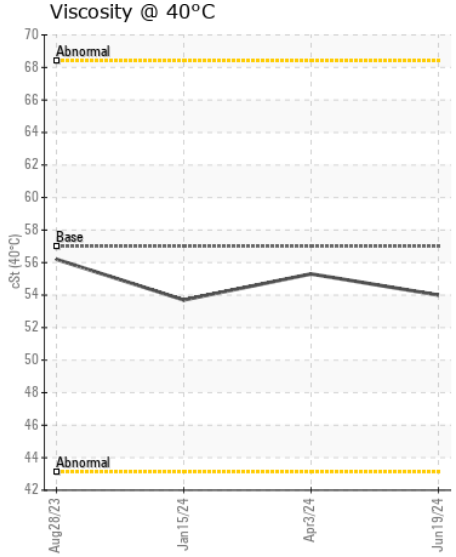
Ferrous Alloys



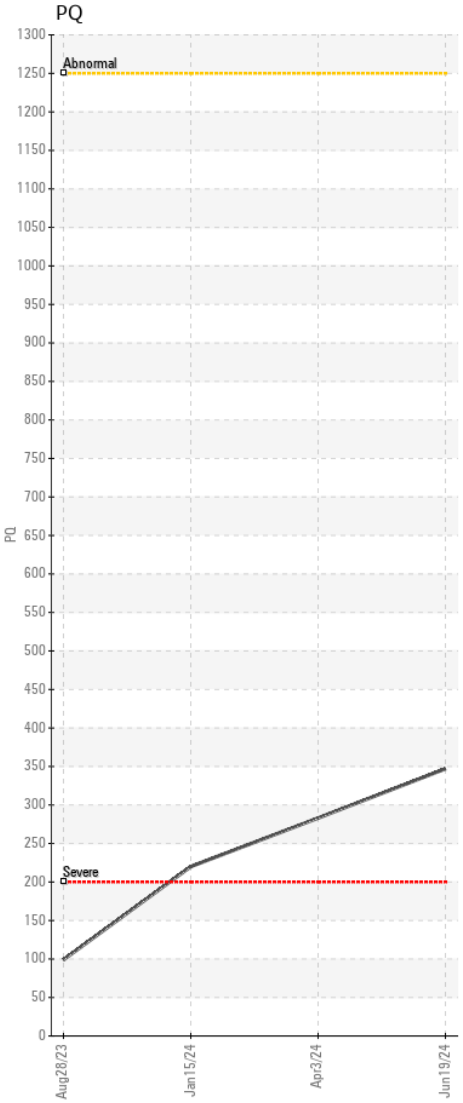
Non-ferrous Metals



Viscosity @ 40°C



PQ



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0218586 **Received** : 24 Jun 2024
Lab Number : 06218571 **Tested** : 25 Jun 2024
Unique Number : 11096768 **Diagnosed** : 26 Jun 2024 - Sean Felton
Test Package : CONST (Additional Tests: PQ)

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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