James River Equipment

OIL ANALYSIS REPORT

WEAR	ATTENTION
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 850L 1T0850LXHPF445799
Component
Left Outer Final Drive
Fluid
JOHN DEERE HY-GARD HYD/TRANS (18 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

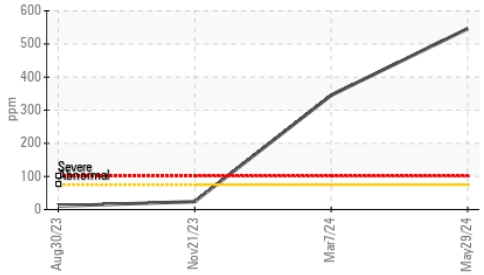
The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**JR0217737**	JR0208278	JR0196058
Sample Date		Client Info		**29 May 2024**	07 Mar 2024	21 Nov 2023
Machine Age	hrs	Client Info		**1966**	1471	966
Oil Age	hrs	Client Info		**1966**	1471	966
Filter Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**Changed**	Not Changd	N/A
Filter Changed		Client Info		**None**	None	N/A
Sample Status				**SEVERE**	ABNORMAL	NORMAL
PQ		ASTM D8184	>1250	**312**	568	23
Iron	ppm	ASTM D5185m	>750	**1078**	621	129
Chromium	ppm	ASTM D5185m	>9	**5**	4	1
Nickel	ppm	ASTM D5185m	>10	**8**	5	<1
Titanium	ppm	ASTM D5185m		**12**	9	<1
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>40	● **175**	● 107	7
Lead	ppm	ASTM D5185m	>15	**<1**	0	0
Copper	ppm	ASTM D5185m	>40	**2**	1	1
Tin	ppm	ASTM D5185m	>10	**<1**	<1	0
Vanadium	ppm	ASTM D5185m		**<1**	<1	0
White Metal	scalar	*Visual	NONE	**NONE**	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	▲ **546**	▲ 345	24
Potassium	ppm	ASTM D5185m	>20	**32**	22	<1
Water		WC Method	>0.075	**NEG**	NEG	NEG
Silt	scalar	*Visual	NONE	**NONE**	LIGHT	MODER
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	**24**	16	3
Boron	ppm	ASTM D5185m	6	**14**	6	1
Barium	ppm	ASTM D5185m	0	**2**	<1	8
Molybdenum	ppm	ASTM D5185m	0	**8**	4	<1
Manganese	ppm	ASTM D5185m		**11**	7	2
Magnesium	ppm	ASTM D5185m	145	**149**	139	107
Calcium	ppm	ASTM D5185m	3570	**3504**	3103	3313
Phosphorus	ppm	ASTM D5185m	1290	**1081**	970	1097
Zinc	ppm	ASTM D5185m	1640	**1232**	1167	1301
Sulfur	ppm	ASTM D5185m		**4791**	3379	3992
Visc @ 40°C	cSt	ASTM D445	57.0	**53.9**	54.6	53.1

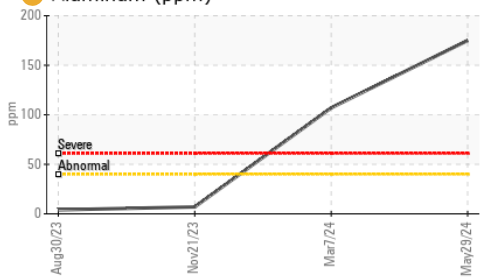
Report Id: BSSWAR [WUSCAR] 06196939 (Generated: 06/03/2024 16:45:34) Rev: 1

Submitted By: TECHNICIAN ACCOUNT

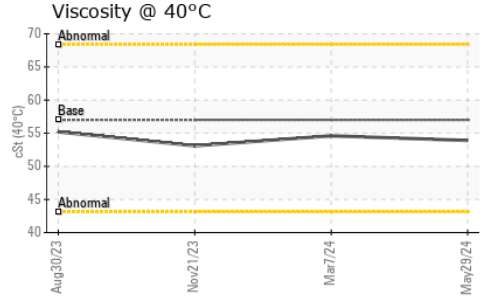
Silicon (ppm)



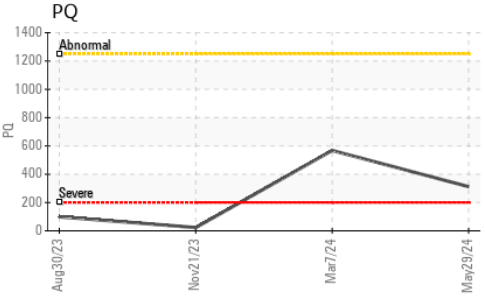
Aluminum (ppm)



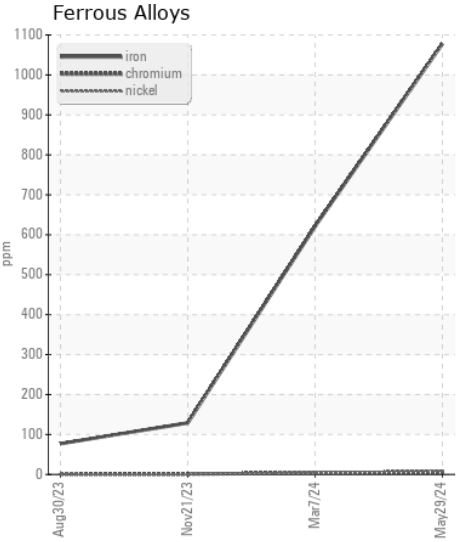
Viscosity @ 40°C



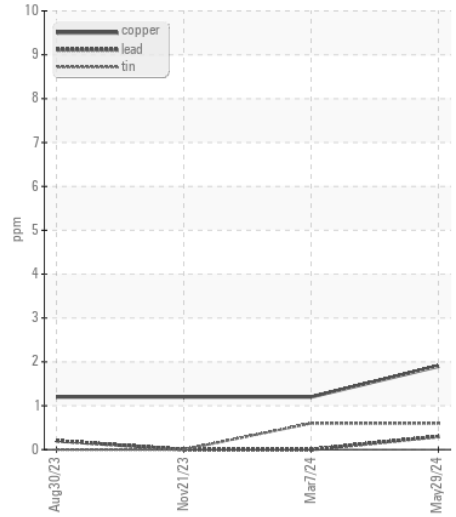
PQ



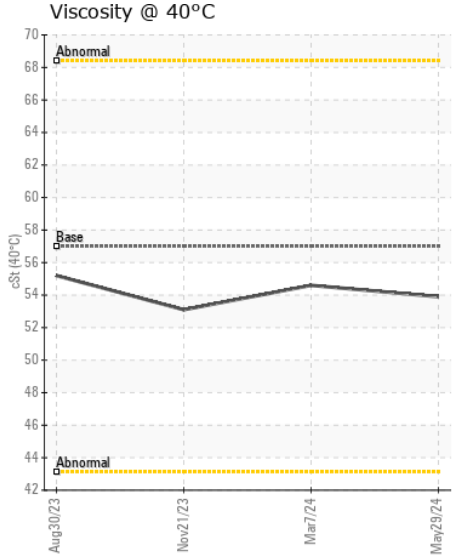
Ferrous Alloys



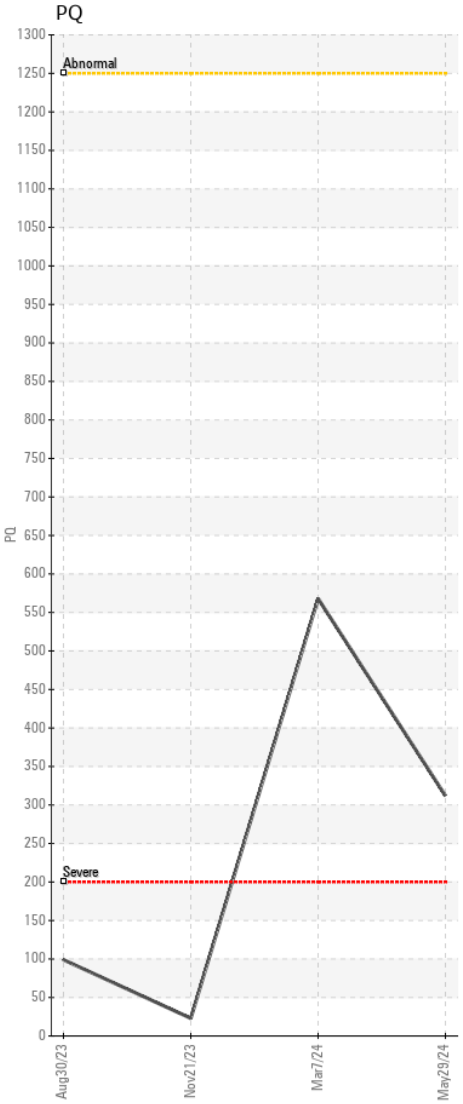
Non-ferrous Metals



Viscosity @ 40°C



PQ



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0217737 **Received** : 31 May 2024
Lab Number : 06196939 **Tested** : 03 Jun 2024
Unique Number : 11059062 **Diagnosed** : 03 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)

B & S SITE DEVLEOPMENT
7800 PINEY BRANCH LANE
BRISTOW, VA
US 20136
Contact: DANNY HUFF
dhuff@bandssite.com
T: (540)270-3203
F: (703)753-0605