James River Equipment

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[ATLAS PLUMBING]
Machine Id
JOHN DEERE 410L 1T0410LXCMF404565
Component
Rear Differential
Fluid
JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

There is no indication of any contamination in the oil.

FLUID CONDITION

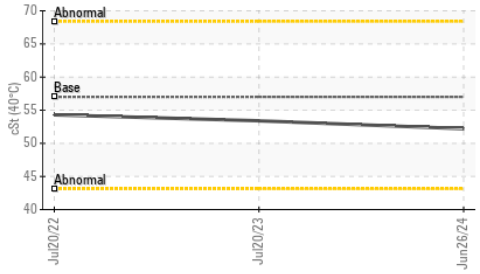
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0221344	JR0181851	JR0132460
Sample Date		Client Info		26 Jun 2024	20 Jul 2023	20 Jul 2022
Machine Age	hrs	Client Info		1478	955	449
Oil Age	hrs	Client Info		0	955	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	N/A	Not Changd
Filter Changed		Client Info		N/A	N/A	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
PQ		ASTM D8184		79	78	78
Iron	ppm	ASTM D5185m	>500	204	180	118
Chromium	ppm	ASTM D5185m	>10	2	2	1
Nickel	ppm	ASTM D5185m	>10	4	2	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>25	3	3	2
Lead	ppm	ASTM D5185m	>25	<1	<1	<1
Copper	ppm	ASTM D5185m	>100	35	26	13
Tin	ppm	ASTM D5185m	>10	2	1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	MODER	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	18	19	15
Potassium	ppm	ASTM D5185m	>20	2	2	0
Water		WC Method	>.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	LIGHT	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
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	>.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		7	<1	5
Boron	ppm	ASTM D5185m	6	2	3	11
Barium	ppm	ASTM D5185m	0	6	7	3
Molybdenum	ppm	ASTM D5185m	0	<1	<1	<1
Manganese	ppm	ASTM D5185m		6	5	4
Magnesium	ppm	ASTM D5185m	145	112	99	102
Calcium	ppm	ASTM D5185m	3570	3942	3619	3610
Phosphorus	ppm	ASTM D5185m	1290	1226	1084	998
Zinc	ppm	ASTM D5185m	1640	1401	1215	1218
Sulfur	ppm	ASTM D5185m		4079	4256	4318
Visc @ 40°C	cSt	ASTM D445	57.0	52.2	53.4	54.3

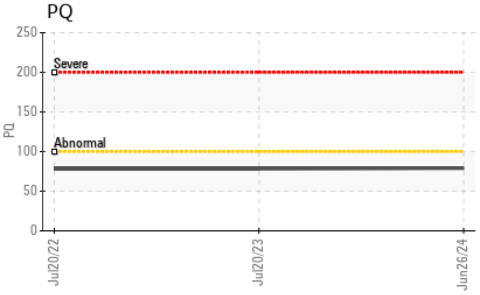
Report Id: JAMWIN [WUSCAR] 06225372 (Generated: 07/02/2024 16:33:26) Rev: 1

Submitted By: TOM DAVIS

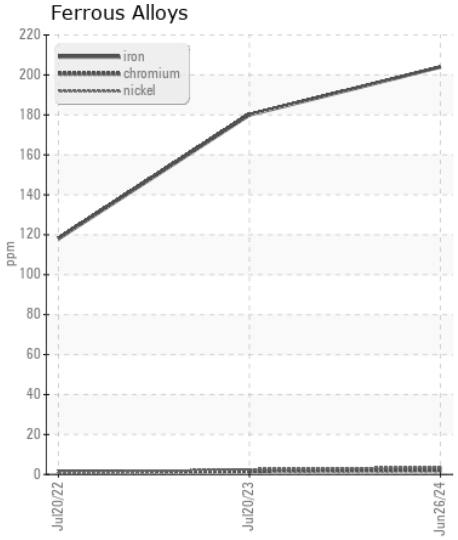
Viscosity @ 40°C



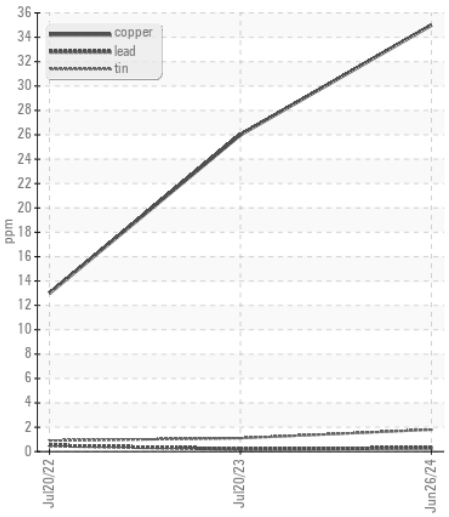
PQ



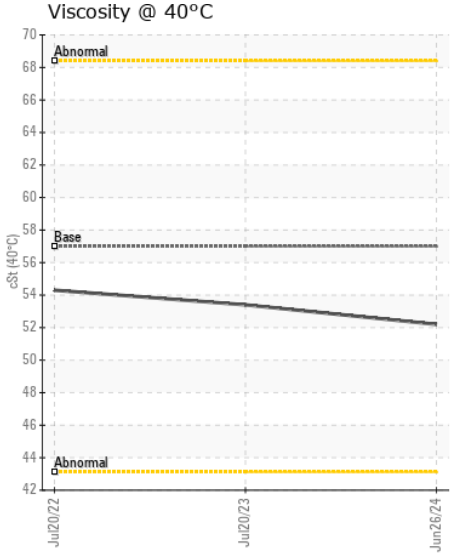
Ferrous Alloys



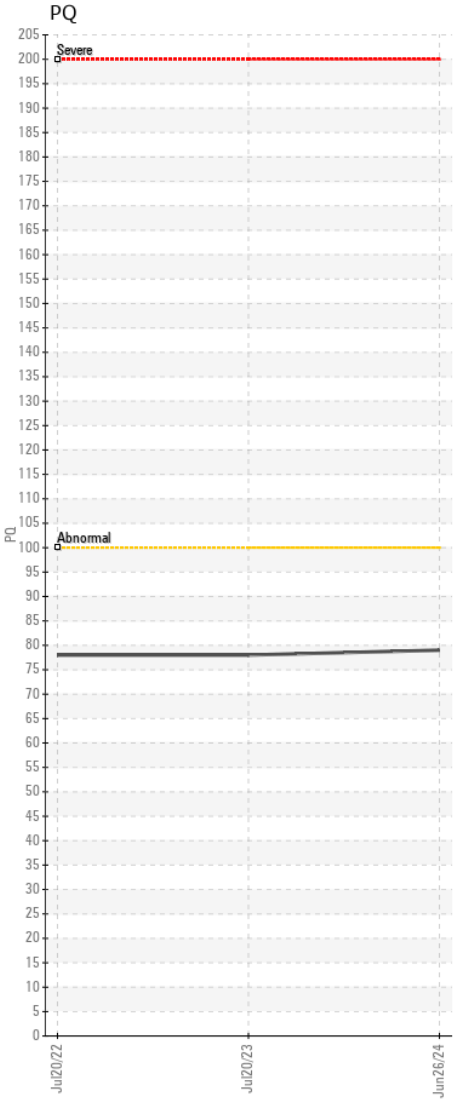
Non-ferrous Metals



Viscosity @ 40°C



PQ



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0221344 **Received** : 01 Jul 2024
Lab Number : 06225372 **Tested** : 02 Jul 2024
Unique Number : 11103569 **Diagnosed** : 02 Jul 2024 - Wes Davis
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)

JRE - STEPHENSON
245 YARDMASTER COURT
STEPHENSON, VA
US 22656-1761
Contact: PHIL DAUGHERTY
pdaugherty@jamesriverequipment.com
T: x:
F: (540)693-2588