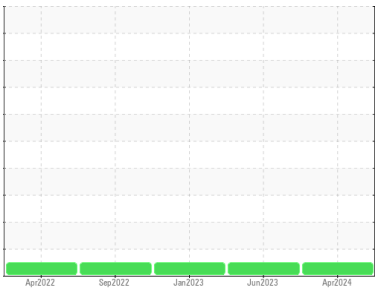
JAMES RIVER EQUIPMENT

OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id
JOHN DEERE 410L 1T0410LXVMF398470
Component
Front Differential
Fluid
JOHN DEERE HY-GARD HYDRAULIC/RANSMISSION (8 QTS)

DIAGNOSIS

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 fluid.

Fluid Condition
The condition of the fluid is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**JR0211369**	JR0173181	JR0157621
Sample Date		Client Info		**03 Apr 2024**	30 Jun 2023	19 Jan 2023
Machine Age	hrs	Client Info		**2090**	1940	1448
Oil Age	hrs	Client Info		**0**	1940	1448
Oil Changed		Client Info		**Not Changd**	N/A	Not Changd
Sample Status				**NORMAL**	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>.2	**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		**59**	678	16
Iron	ppm	ASTM D5185m	>500	**58**	572	626
Chromium	ppm	ASTM D5185m	>10	**0**	3	3
Nickel	ppm	ASTM D5185m	>10	**0**	0	0
Titanium	ppm	ASTM D5185m		**<1**	<1	<1
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>25	**<1**	2	2
Lead	ppm	ASTM D5185m	>25	**0**	0	0
Copper	ppm	ASTM D5185m	>100	**8**	65	63
Tin	ppm	ASTM D5185m	>10	**0**	2	1
Vanadium	ppm	ASTM D5185m		**<1**	<1	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

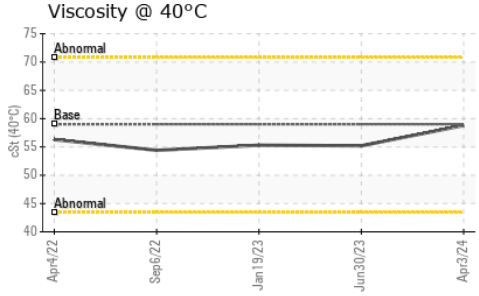
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**14**	118	111
Barium	ppm	ASTM D5185m		**0**	0	2
Molybdenum	ppm	ASTM D5185m		**4**	0	<1
Manganese	ppm	ASTM D5185m		**2**	12	13
Magnesium	ppm	ASTM D5185m		**103**	10	13
Calcium	ppm	ASTM D5185m		**3203**	3328	3327
Phosphorus	ppm	ASTM D5185m		**848**	1113	1107
Zinc	ppm	ASTM D5185m		**1151**	1420	1387
Sulfur	ppm	ASTM D5185m		**3755**	4564	3707

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	**6**	25	18
Sodium	ppm	ASTM D5185m		**2**	18	18
Potassium	ppm	ASTM D5185m	>20	**0**	1	3

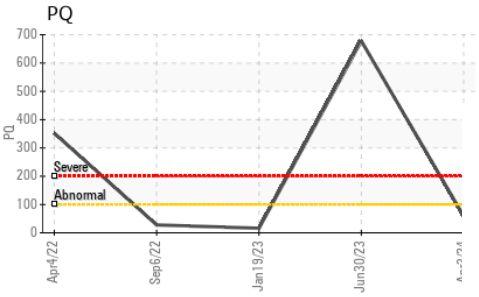
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	MODER	MODER
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**LIGHT**	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

OIL ANALYSIS REPORT

Viscosity @ 40°C



PQ

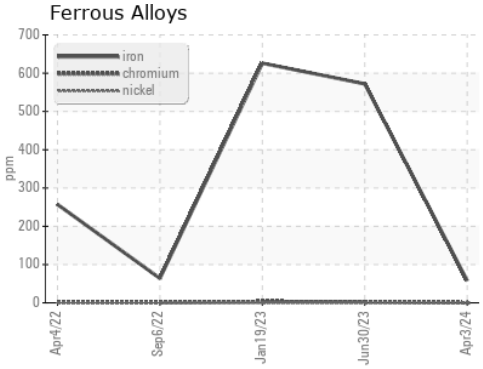


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	59	**58.8**	55.2	55.3

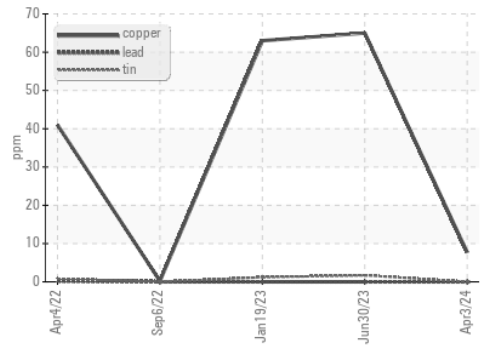
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			*no image*	*no image*	*no image*
Bottom			*no image*	*no image*	*no image*

GRAPHS

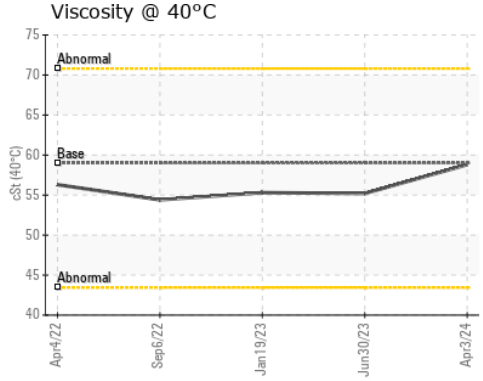
Ferrous Alloys



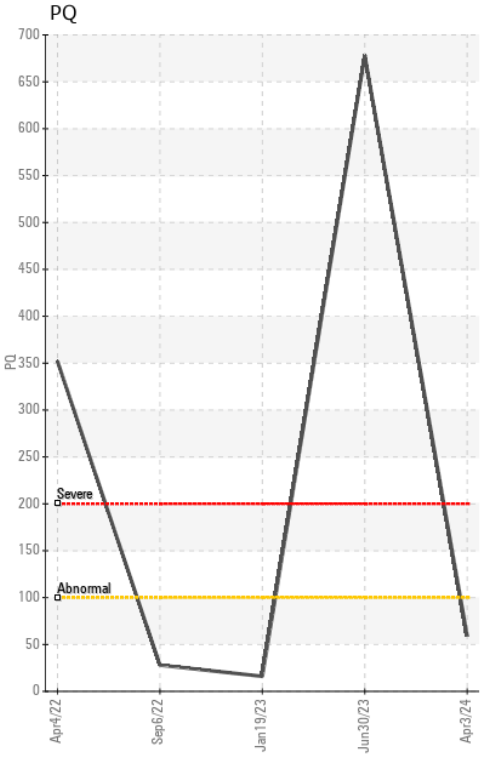
Non-ferrous Metals



Viscosity @ 40°C



PQ



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0211369
Lab Number : 06138801
Unique Number : 10963609
Test Package : CONST (Additional Tests: PQ)

Received : 04 Apr 2024
Tested : 05 Apr 2024
Diagnosed : 05 Apr 2024 - Doug Bogart

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 - MANASSAS PARK
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Report Id: JAMMAN [WUSCAR] 06138801 (Generated: 05/07/2024 10:55:27) Rev: 1

Submitted By: TOM DAVIS