James River Equipment

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[44994]
Machine Id
JOHN DEERE 310 P 1DW310PAKPFB06149
Component
Front 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

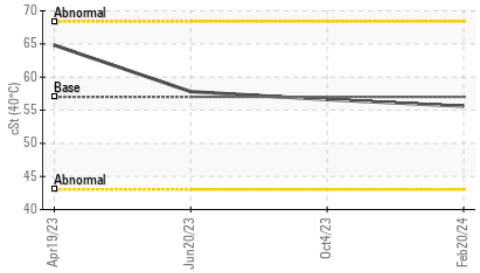
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0203012	JR0187450	JR0176285
Sample Date		Client Info		20 Feb 2024	04 Oct 2023	20 Jun 2023
Machine Age	hrs	Client Info		1969	1437	949
Oil Age	hrs	Client Info		1969	1437	500
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	N/A	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
PQ		ASTM D8184		163	159	175
Iron	ppm	ASTM D5185m	>500	253	247	172
Chromium	ppm	ASTM D5185m	>10	2	2	2
Nickel	ppm	ASTM D5185m	>10	7	7	4
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>25	2	1	2
Lead	ppm	ASTM D5185m	>25	1	<1	0
Copper	ppm	ASTM D5185m	>100	105	88	60
Tin	ppm	ASTM D5185m	>10	6	6	4
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	15	16	12
Potassium	ppm	ASTM D5185m	>20	2	1	0
Water		WC Method	>.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	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
Sodium	ppm	ASTM D5185m		9	12	11
Boron	ppm	ASTM D5185m	6	45	49	45
Barium	ppm	ASTM D5185m	0	7	<1	0
Molybdenum	ppm	ASTM D5185m	0	7	7	6
Manganese	ppm	ASTM D5185m		21	23	18
Magnesium	ppm	ASTM D5185m	145	87	99	97
Calcium	ppm	ASTM D5185m	3570	3334	3622	3423
Phosphorus	ppm	ASTM D5185m	1290	1005	1148	1052
Zinc	ppm	ASTM D5185m	1640	1201	1390	1297
Sulfur	ppm	ASTM D5185m		3843	3970	3995
Visc @ 40°C	cSt	ASTM D445	57.0	55.6	56.6	57.8

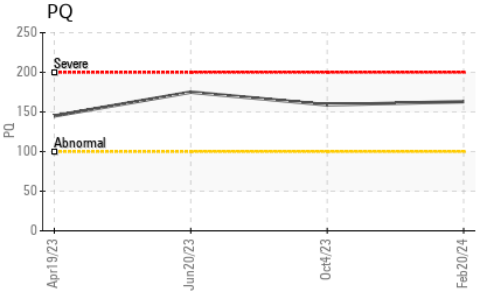
Report Id: BSSWAR [WUSCAR] 06097942 (Generated: 02/25/2024 12:11:53) Rev: 1

Submitted By: TECHNICIAN ACCOUNT

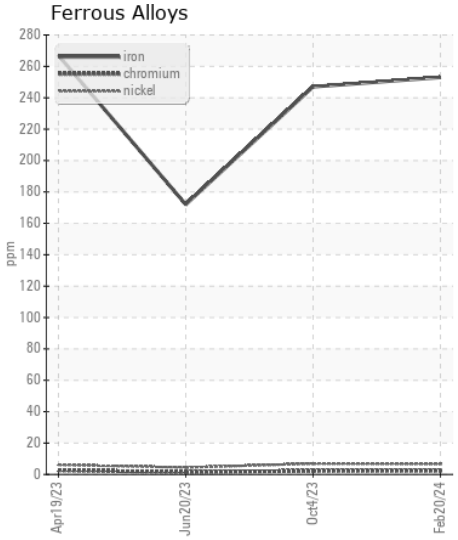
Viscosity @ 40°C



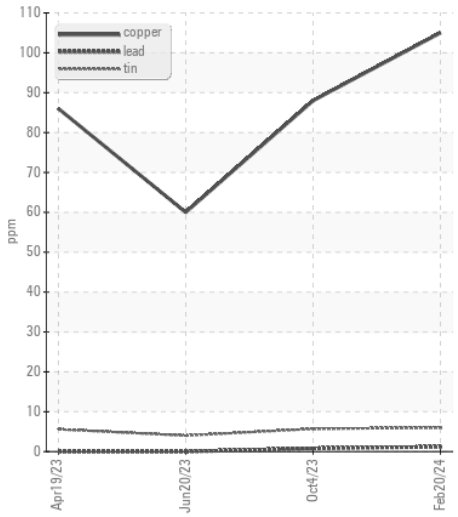
PQ



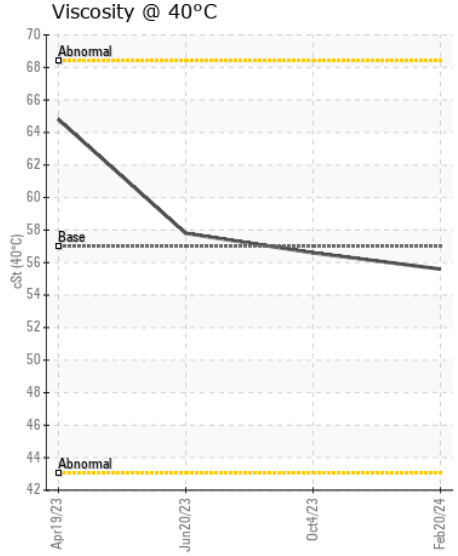
Ferrous Alloys



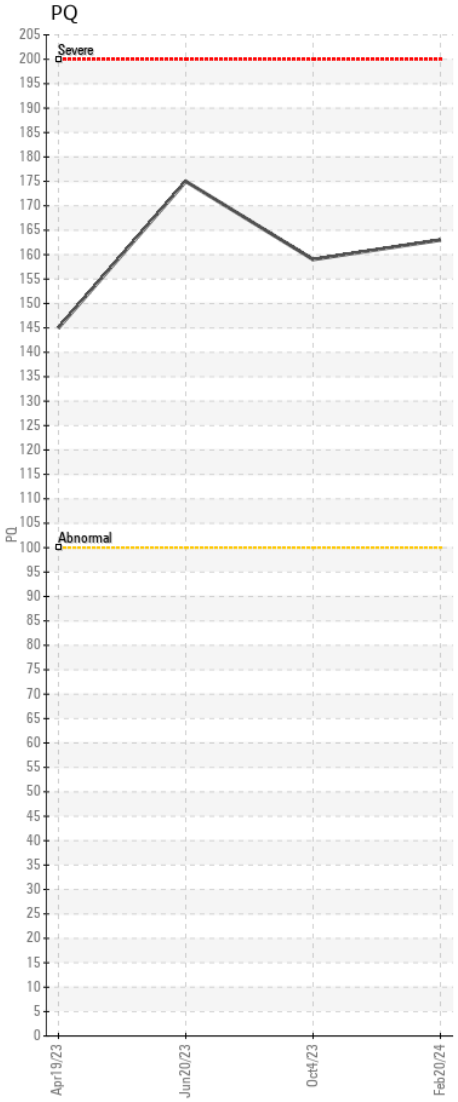
Non-ferrous Metals



Viscosity @ 40°C



PQ



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0203012
Lab Number : 06097942
Unique Number : 10896172
Test Package : CONST (Additional Tests: PQ)

Received : 22 Feb 2024
Tested : 23 Feb 2024
Diagnosed : 25 Feb 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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