



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[05W44774]
 Machine Id
JOHN DEERE 410E-II 1DW410ELEM712370
 Component
Center Differential
 Fluid
JOHN DEERE HY-GARD HYDRAULIC/RANSMISSION (68 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0199418	JR0189902	JR0168763
Sample Date		Client Info		08 Feb 2024	19 Oct 2023	27 Jul 2023
Machine Age	hrs	Client Info		3981	3457	2956
Oil Age	hrs	Client Info		2475	0	2418
Filter Age	hrs	Client Info		1000	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184		29	13	12
Iron	ppm	ASTM D5185m	>500	75	36	17
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	12	1
Lead	ppm	ASTM D5185m	>25	11	14	0
Copper	ppm	ASTM D5185m	>100	8	14	2
Tin	ppm	ASTM D5185m	>10	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

There is no indication of any contamination in the oil.

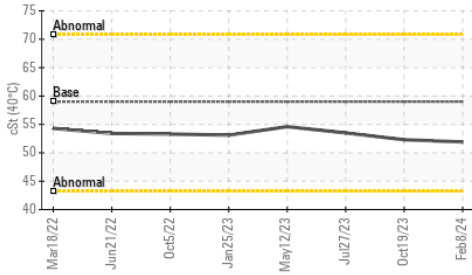
Silicon	ppm	ASTM D5185m	>75	6	10	3
Potassium	ppm	ASTM D5185m	>20	<1	3	0
Water		WC Method	>.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	NEG	NEG	NEG

FLUID CONDITION

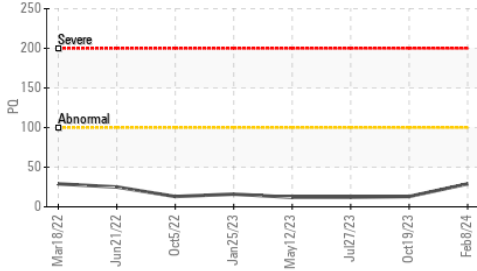
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		6	<1	2
Boron	ppm	ASTM D5185m		6	8	8
Barium	ppm	ASTM D5185m		2	1	0
Molybdenum	ppm	ASTM D5185m		4	5	5
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m		97	124	114
Calcium	ppm	ASTM D5185m		3063	3917	3533
Phosphorus	ppm	ASTM D5185m		878	1321	1071
Zinc	ppm	ASTM D5185m		1169	1429	1280
Sulfur	ppm	ASTM D5185m		3650	5461	4427
Visc @ 40°C	cSt	ASTM D445	59	51.9	52.3	53.5

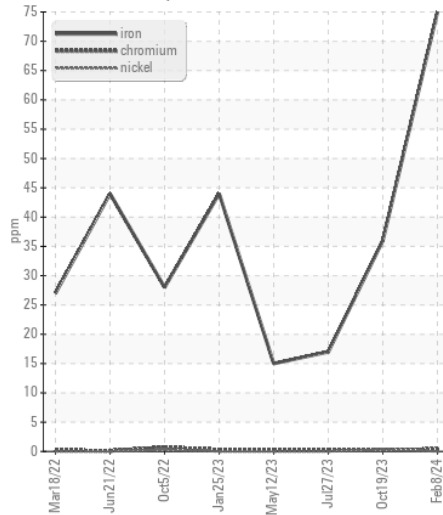
Viscosity @ 40°C



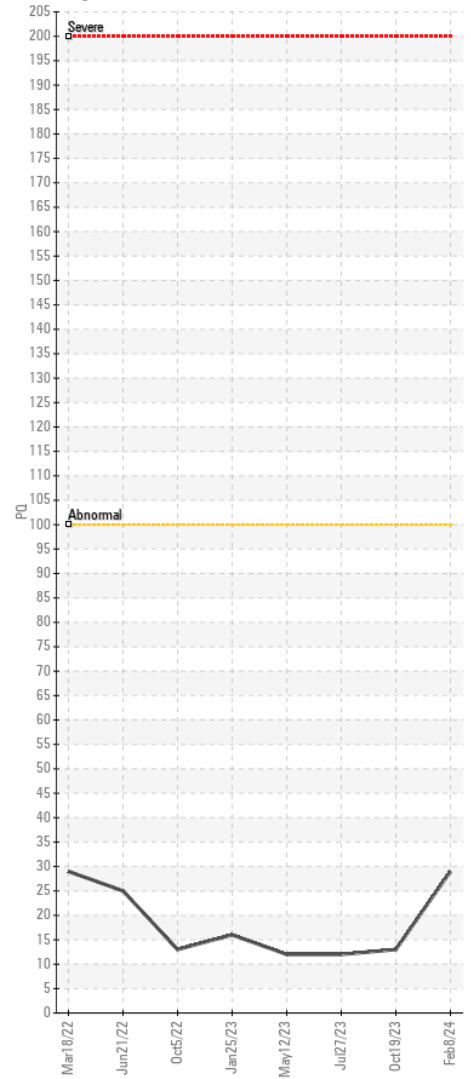
PQ



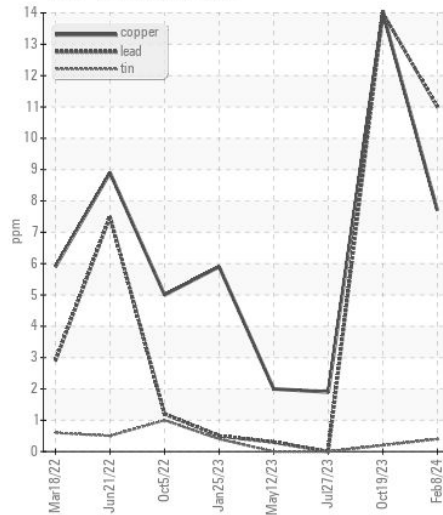
Ferrous Alloys



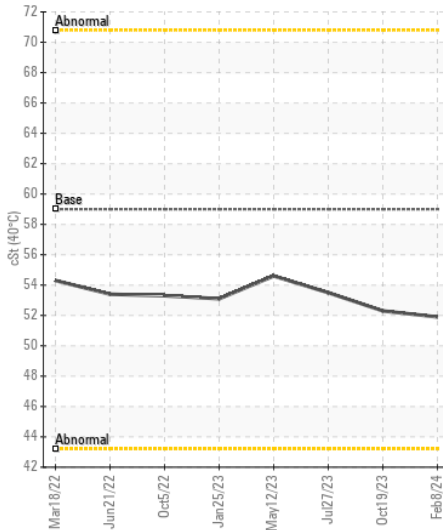
PQ



Non-ferrous Metals



Viscosity @ 40°C



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0199418 **Received** : 09 Feb 2024
Lab Number : 06085489 **Tested** : 12 Feb 2024
Unique Number : 10872934 **Diagnosed** : 12 Feb 2024 - Wes Davis
Test Package : CONST (Additional Tests: PQ)

JRE - MANASSAS PARK
 9107 OWENS DRIVE
 MANASSAS PARK, VA
 US 20111
 Contact: DON VEST
 dvest@jamesriverequipment.com
 T: (703)631-8500
 F: (703)631-4715

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)