



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 524P 1DW524PAHNLZ13742

Component
Transmission (Manual)

Fluid
JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0207878	JR0191385	JR0185204
Sample Date		Client Info		11 Apr 2024	21 Dec 2023	16 Aug 2023
Machine Age	hrs	Client Info		3557	3030	2425
Oil Age	hrs	Client Info		1643	1116	511
Filter Age	hrs	Client Info		1643	1116	511
Oil Changed		Client Info		Not Changed	Not Changed	Not Changed
Filter Changed		Client Info		Not Changed	Not Changed	Not Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>95	18	15	10
Iron	ppm	ASTM D5185m	>200	14	16	12
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>7	0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	1	4
Lead	ppm	ASTM D5185m	>45	<1	0	4
Copper	ppm	ASTM D5185m	>225	5	6	8
Tin	ppm	ASTM D5185m	>10	<1	0	2
Vanadium	ppm	ASTM D5185m		<1	0	<1
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 fluid.

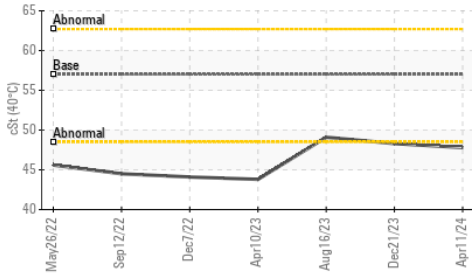
Silicon	ppm	ASTM D5185m	>125	12	15	13
Potassium	ppm	ASTM D5185m	>20	1	<1	5
Water		WC Method	>0.1	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG

FLUID CONDITION

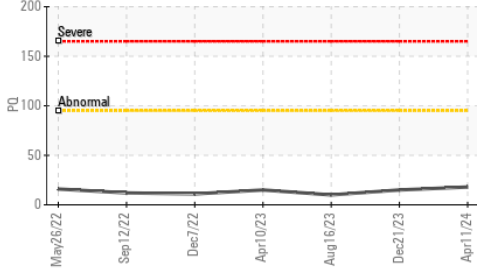
The condition of the fluid is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		8	7	14
Boron	ppm	ASTM D5185m	6	<1	<1	<1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	1	1	5
Manganese	ppm	ASTM D5185m		<1	0	2
Magnesium	ppm	ASTM D5185m	145	77	97	82
Calcium	ppm	ASTM D5185m	3570	2668	3278	3005
Phosphorus	ppm	ASTM D5185m	1290	864	1031	897
Zinc	ppm	ASTM D5185m	1640	1041	1235	1178
Sulfur	ppm	ASTM D5185m		3141	3956	4001
Visc @ 40°C	cSt	ASTM D445	57.0	47.8	48.3	49.1

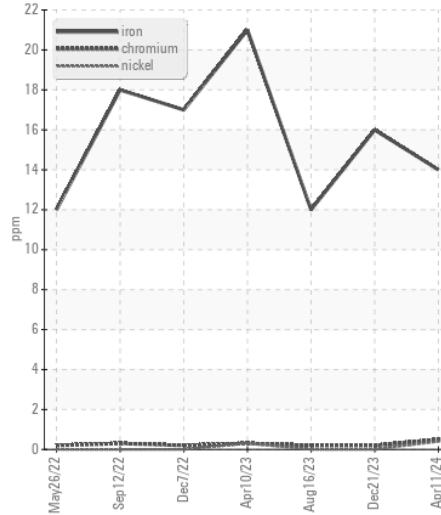
Viscosity @ 40°C



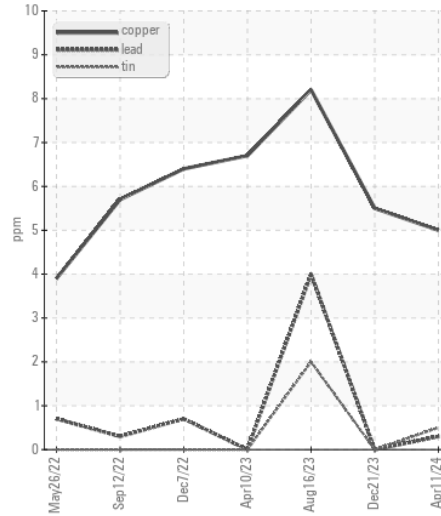
PQ



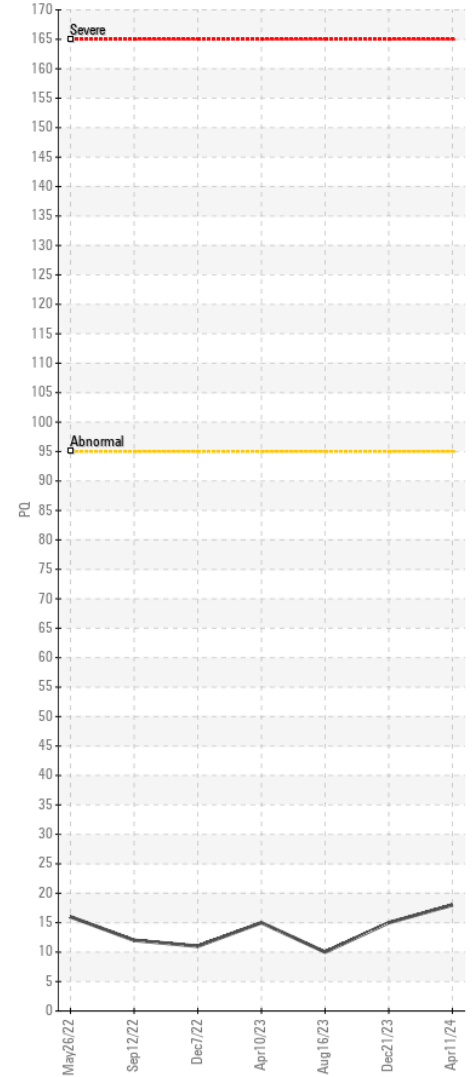
Ferrous Alloys



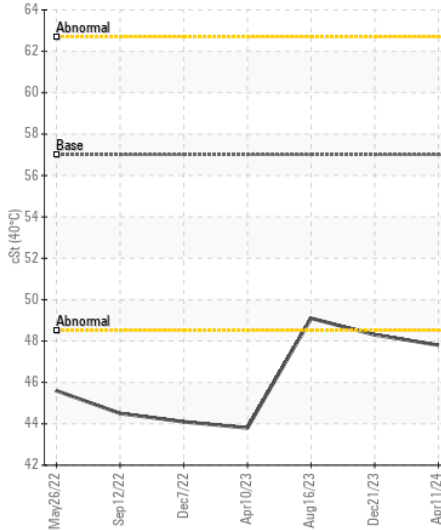
Non-ferrous Metals



PQ



Viscosity @ 40°C



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0207878 **Received** : 23 Apr 2024
Lab Number : 06158521 **Tested** : 25 Apr 2024
Unique Number : 10993944 **Diagnosed** : 25 Apr 2024 - Wes Davis
Test Package : CONST (Additional Tests: PQ)

TENNOCA CONSTRUCTION
 PO BOX 2379
 CANDLER, NC
 US 28715
 Contact: MARK ROSS
 mark@tennoca.com
 T: (828)665-8331
 F:

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)