



WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[16W16050]

Machine Id

JOHN DEERE 524P 1DW524PAVMLZ10365

Component

Front Differential

Fluid

JOHN DEERE HY-GARD HYD/TRANS (18 QTS)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: 16W16050)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0207094	JR0196585	JR0185608
Sample Date		Client Info		16 Apr 2024	12 Dec 2023	05 Sep 2023
Machine Age	hrs	Client Info		5955	5452	4996
Oil Age	hrs	Client Info		1914	1411	955
Filter Age	hrs	Client Info		959	456	955
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Not Changd	Changed
Sample Status				ABNORMAL	ABNORMAL	NORMAL

WEAR

The lead level is abnormal. All other component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		18	14	12
Iron	ppm	ASTM D5185m	>500	43	38	34
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	1	2
Lead	ppm	ASTM D5185m	>25	▲ 30	▲ 31	24
Copper	ppm	ASTM D5185m	>100	18	17	15
Tin	ppm	ASTM D5185m	>10	2	1	<1
Vanadium	ppm	ASTM D5185m		<1	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.

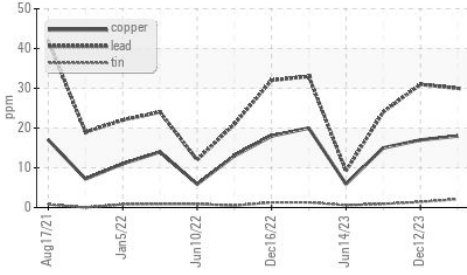
Test	UOM	Method	Limit/Abn	Current	History1	History2
Silicon	ppm	ASTM D5185m	>75	5	4	5
Potassium	ppm	ASTM D5185m	>20	2	0	1
Water		WC Method	>.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	NEG	NEG	NEG

FLUID CONDITION

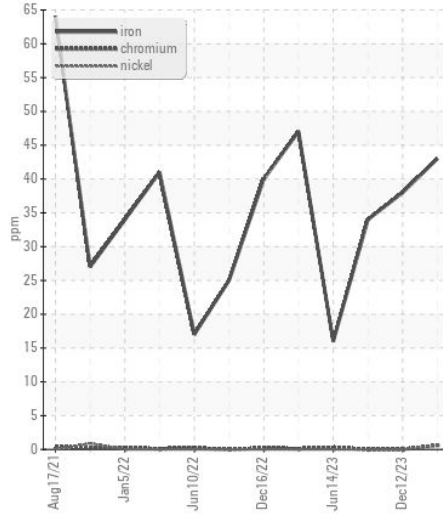
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sodium	ppm	ASTM D5185m		0	2	0
Boron	ppm	ASTM D5185m	6	2	<1	0
Barium	ppm	ASTM D5185m	0	2	0	2
Molybdenum	ppm	ASTM D5185m	0	1	0	<1
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m	145	89	94	90
Calcium	ppm	ASTM D5185m	3570	3373	3255	3419
Phosphorus	ppm	ASTM D5185m	1290	1080	1017	1002
Zinc	ppm	ASTM D5185m	1640	1213	1200	1173
Sulfur	ppm	ASTM D5185m		5087	3460	3439
Visc @ 40°C	cSt	ASTM D445	57.0	53.4	53.4	54.3

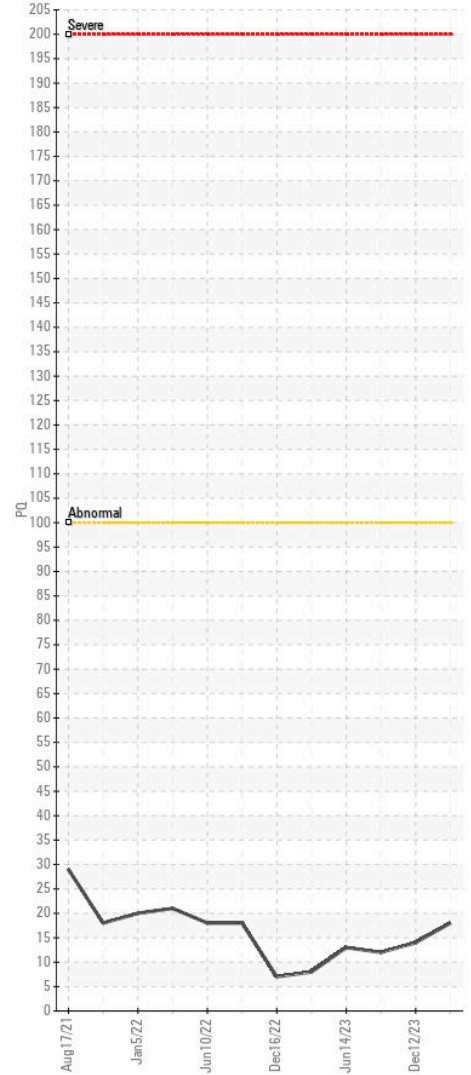
▲ Non-ferrous Metals



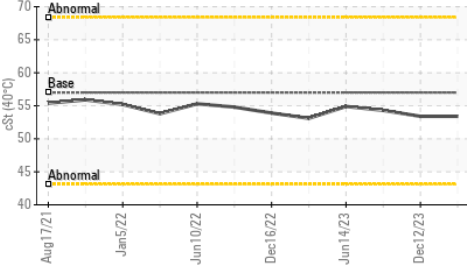
Ferrous Alloys



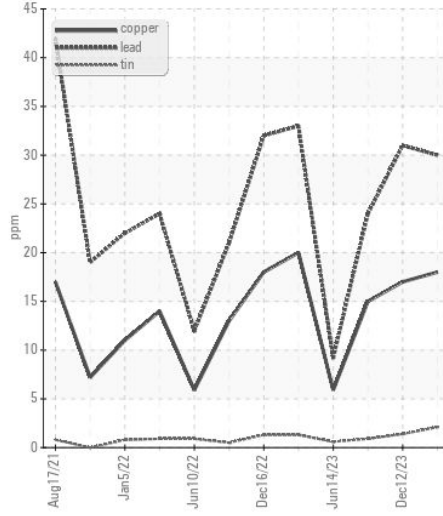
PQ



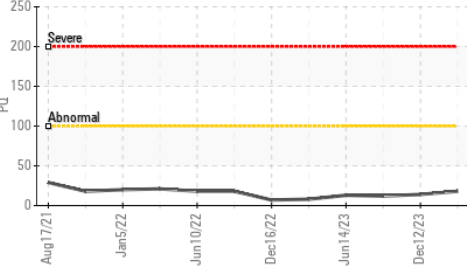
Viscosity @ 40°C



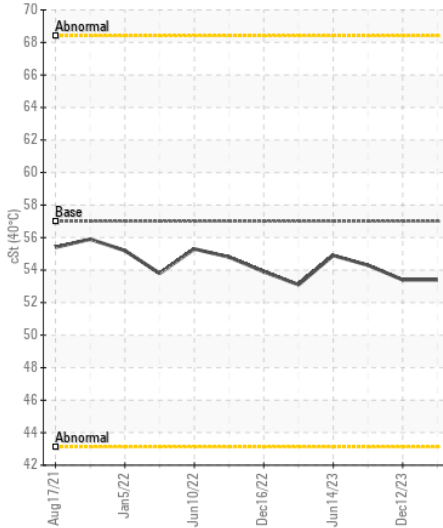
▲ Non-ferrous Metals



PQ



Viscosity @ 40°C



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0207094 **Received** : 18 Apr 2024
Lab Number : 06153434 **Tested** : 19 Apr 2024
Unique Number : 10983512 **Diagnosed** : 22 Apr 2024 - Angela Borella
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)

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