



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[127638]
 Machine Id
JOHN DEERE 460P 1DW460PAKPFB06206
 Component
Front Differential
 Fluid
JOHN DEERE HY-GARD HYD/TRANS (--- QTS)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WE0007865	WE0006864	WE0006370
Sample Date		Client Info		09 Jul 2024	04 Apr 2024	30 Jan 2024
Machine Age	hrs	Client Info		3050	2448	2053
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	Changed
Filter Changed		Client Info		N/A	N/A	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

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

PQ		ASTM D8184		19	16	22
Iron	ppm	ASTM D5185m	>500	27	17	41
Chromium	ppm	ASTM D5185m	>10	<1	0	<1
Nickel	ppm	ASTM D5185m	>10	1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		<1	0	<1
Aluminum	ppm	ASTM D5185m	>25	▲ 53	2	11
Lead	ppm	ASTM D5185m	>25	16	10	24
Copper	ppm	ASTM D5185m	>100	64	31	69
Tin	ppm	ASTM D5185m	>10	4	3	6
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

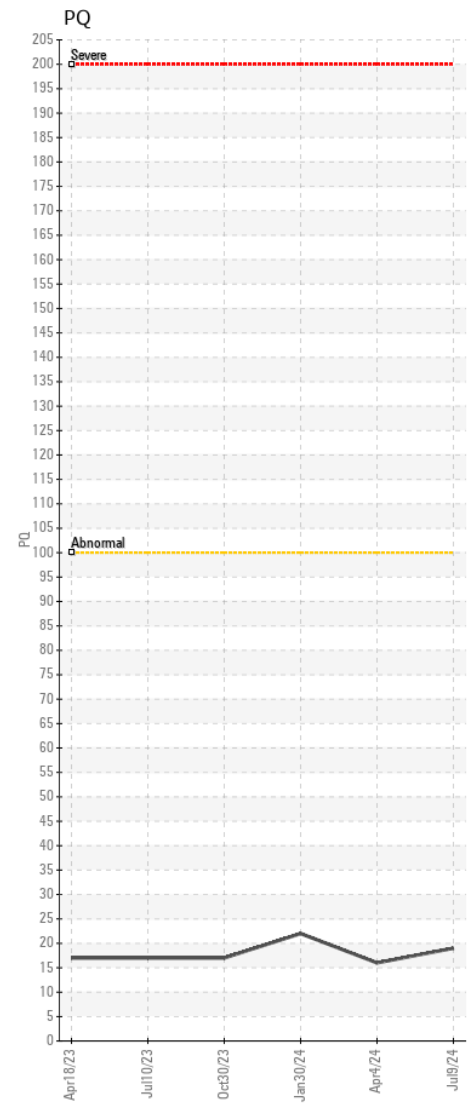
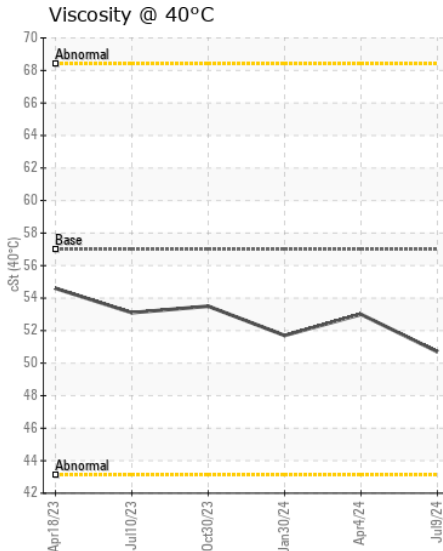
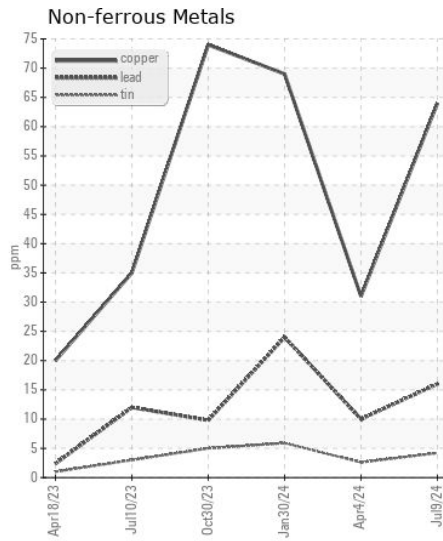
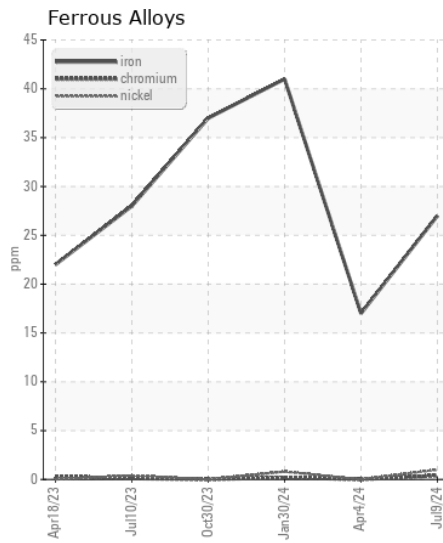
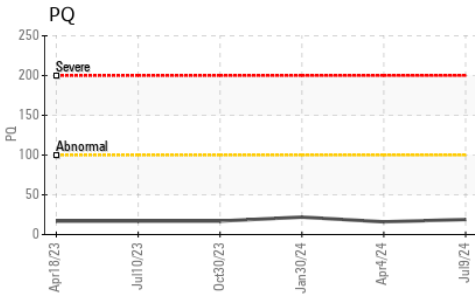
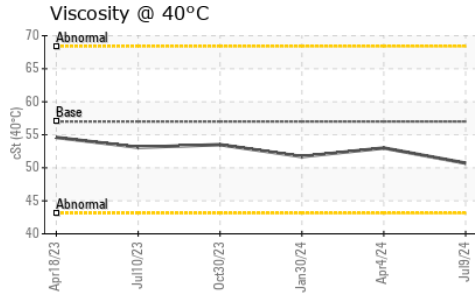
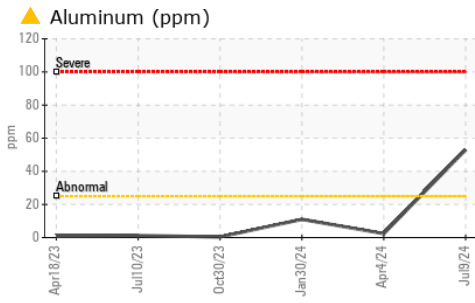
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	16	4	6
Potassium	ppm	ASTM D5185m	>20	3	0	4
Water		WC Method	>.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	MODER	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		0	3	6
Boron	ppm	ASTM D5185m	6	1	0	2
Barium	ppm	ASTM D5185m	0	3	1	4
Molybdenum	ppm	ASTM D5185m	0	<1	0	1
Manganese	ppm	ASTM D5185m		<1	1	3
Magnesium	ppm	ASTM D5185m	145	95	102	99
Calcium	ppm	ASTM D5185m	3570	3536	3602	3347
Phosphorus	ppm	ASTM D5185m	1290	1057	1076	1004
Zinc	ppm	ASTM D5185m	1640	1219	1268	1214
Sulfur	ppm	ASTM D5185m		3658	3541	3413
Visc @ 40°C	cSt	ASTM D445	57.0	50.7	53.0	51.7



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WE0007865 **Received** : 11 Jul 2024
Lab Number : 06234076 **Tested** : 12 Jul 2024
Unique Number : 11122910 **Diagnosed** : 14 Jul 2024 - Don Baldridge
Test Package : CONST (Additional Tests: PQ)

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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)