



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 460P 1DW460PATPFB06235
 Component
Hydraulic System
 Fluid
JOHN DEERE HYDRAU (--- QTS)

RECOMMENDATION

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

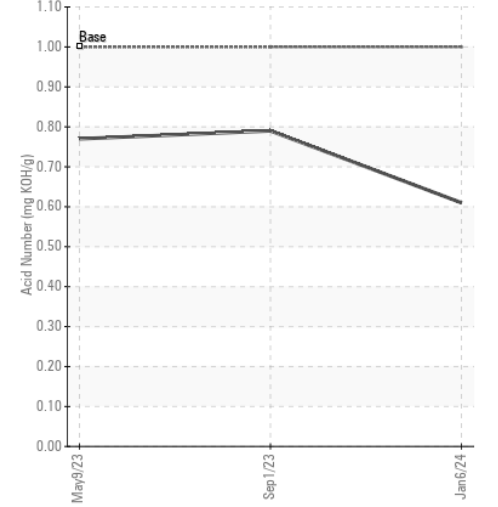
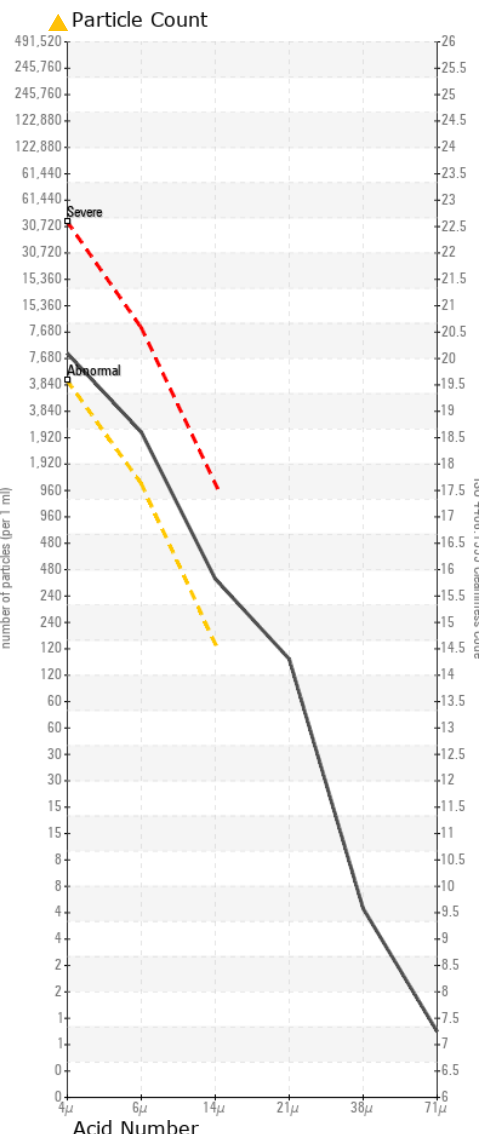
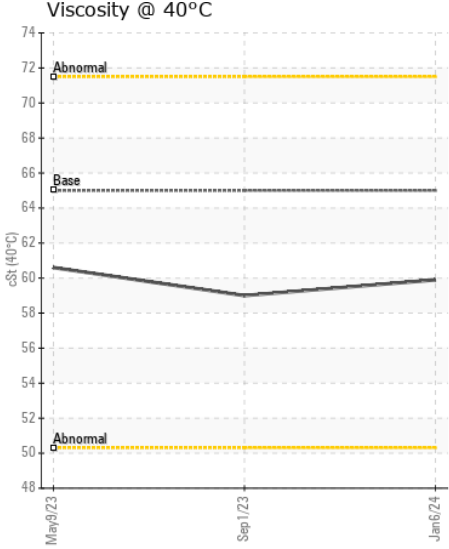
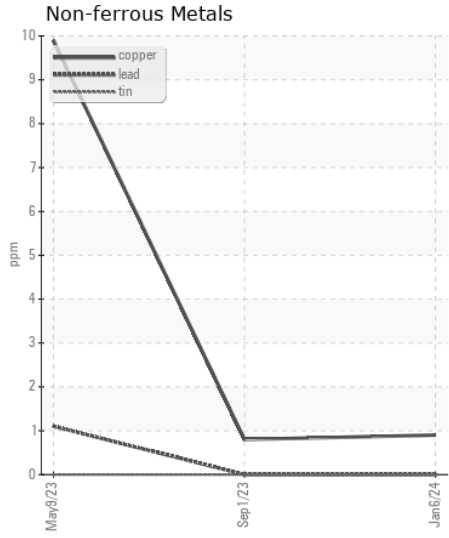
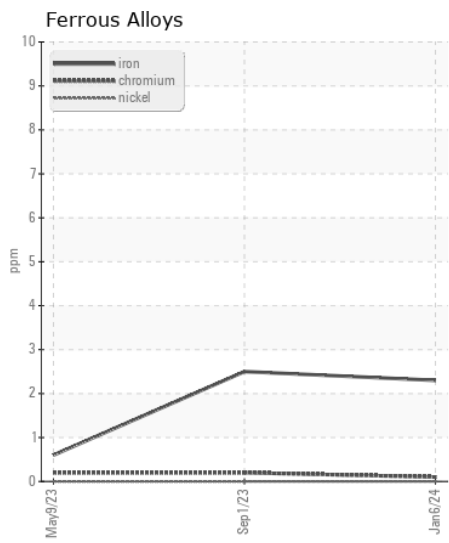
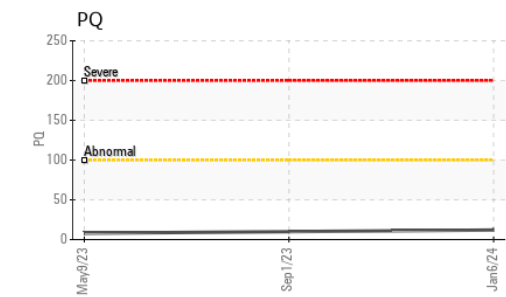
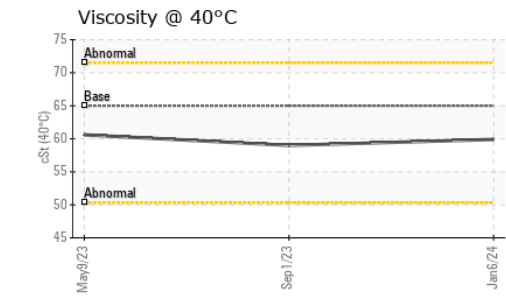
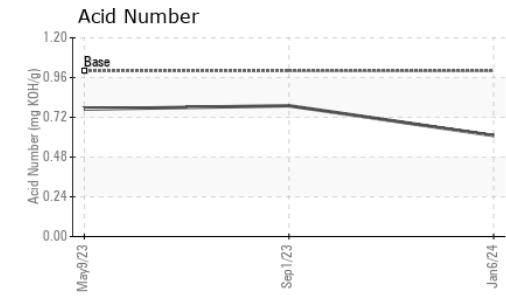
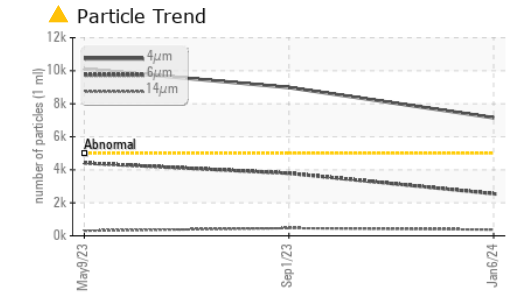
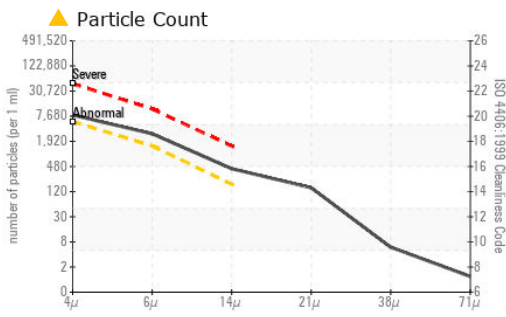
CONTAMINATION

There is a moderate amount of particulates (2 to 100 microns in size) present in the oil.

FLUID CONDITION

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WE0006311	WE0005022	WE0004083
Sample Date		Client Info		06 Jan 2024	01 Sep 2023	09 May 2023
Machine Age	hrs	Client Info		1460	927	431
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	Not Changd
Filter Changed		Client Info		N/A	N/A	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
PQ		ASTM D8184		12	10	8
Iron	ppm	ASTM D5185m	>20	2	2	<1
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	0	0	0
Lead	ppm	ASTM D5185m	>10	0	0	1
Copper	ppm	ASTM D5185m	>75	<1	<1	10
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>20	<1	<1	<1
Potassium	ppm	ASTM D5185m	>20	<1	2	2
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	▲ 7152	▲ 8985	▲ 10104
Particles >6µm		ASTM D7647	>1300	▲ 2550	▲ 3787	▲ 4408
Particles >14µm		ASTM D7647	>160	▲ 374	▲ 465	▲ 305
Particles >21µm		ASTM D7647	>40	▲ 131	▲ 110	▲ 63
Particles >38µm		ASTM D7647	>10	5	1	3
Particles >71µm		ASTM D7647	>3	1	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 20/19/16	▲ 20/19/16	▲ 21/19/15
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	>0.1	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		2	0	<1
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		1	2	0
Molybdenum	ppm	ASTM D5185m		0	<1	<1
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		3	2	2
Calcium	ppm	ASTM D5185m	87	214	123	99
Phosphorus	ppm	ASTM D5185m	727	636	629	632
Zinc	ppm	ASTM D5185m	900	819	838	885
Sulfur	ppm	ASTM D5185m	1500	1701	1797	1699
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.61	0.79	0.77
Visc @ 40°C	cSt	ASTM D445	65	59.9	59.0	60.6



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WE0006311 **Received** : 09 Feb 2024
Lab Number : 06084671 **Tested** : 12 Feb 2024
Unique Number : 10872116 **Diagnosed** : 12 Feb 2024 - Wes Davis
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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