

WEAR NORMAL CONTAMINATION SEVERE FLUID CONDITION NORMAL

JOHN DEERE 310 P 1DW310PAEPFB06548

Hydraulic System

{not provided} (--- GAL)

RECOMMENDATION

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation. Please specify the brand, type, and viscosity of the oil on your next sample.

WEAR

All component wear rates are normal.

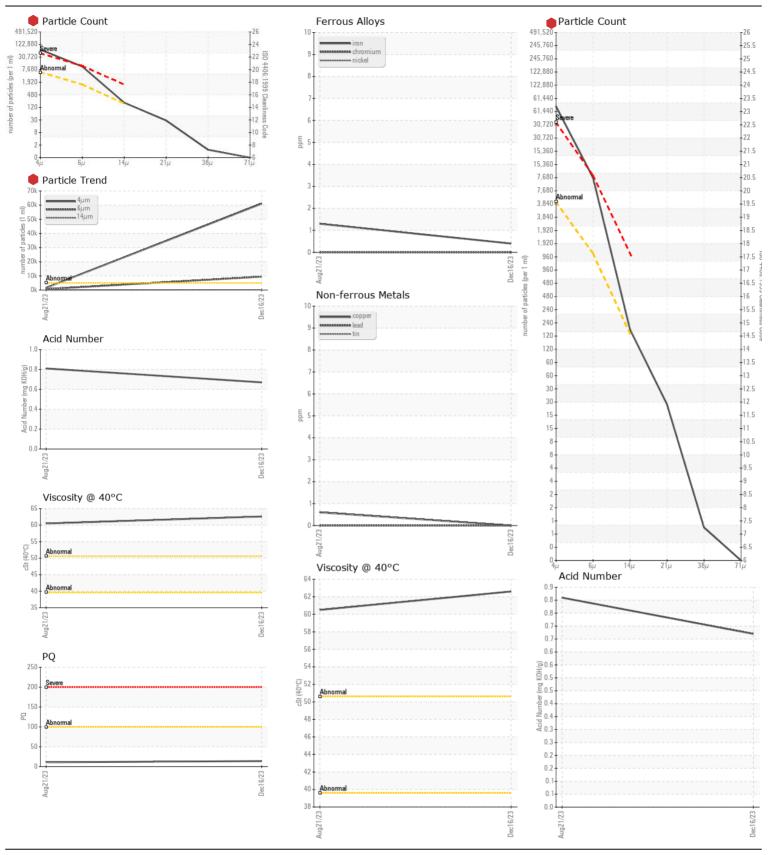
CONTAMINATION

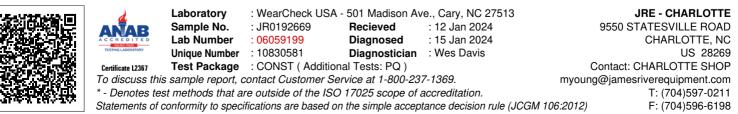
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

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.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0192669	JR0177510	
Sample Date		Client Info		16 Dec 2023	21 Aug 2023	
Machine Age	hrs	Client Info		1253	558	
Oil Age	hrs	Client Info		1253	558	
Filter Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Not Changd	Not Changd	
Filter Changed		Client Info		Not Changd	Not Changd	
Sample Status				SEVERE	NORMAL	
PQ		ASTM D8184		14	11	
Iron	ppm	ASTM D5185m	>20	<1	1	
Chromium	ppm	ASTM D5185m	>10	0	0	
Nickel	ppm	ASTM D5185m	>10	0	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>10	0	<1	
Lead	ppm	ASTM D5185m	>10	0	0	
Copper	ppm	ASTM D5185m	>75	0	<1	
Tin	ppm	ASTM D5185m	>10	0	0	
Vanadium	ppm	ASTM D5185m		0	<1	
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Silicon	ppm	ASTM D5185m	>20	<1	1	
Potassium	ppm	ASTM D5185m	>20	0	4	
Water		WC Method	>0.1	NEG	NEG	
Particles >4µm		ASTM D7647	>5000	61016	1621	
Particles >6µm		ASTM D7647	>1300	A 9456	665	
Particles >14µm		ASTM D7647	>160	178	87	
Particles >21µm		ASTM D7647	>40	25	27	
Particles >38µm		ASTM D7647	>10	1	1	
Particles >71µm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	e 23/20/15	18/17/14	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	
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Sodium	ppm	ASTM D5185m		0	1	
Boron	ppm	ASTM D5185m		4	0	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		4	0	
Manganese	ppm	ASTM D5185m		0	<1	
Magnesium	ppm	ASTM D5185m		21	<1	
Calcium	ppm	ASTM D5185m		135	96	
Phosphorus	ppm	ASTM D5185m		707	601	
Zinc	ppm	ASTM D5185m		876	1976	
Sulfur	ppm	ASTM D5185m		1704	1876	
Acid Number (AN)	mg KOH/g	ASTM D8045		0.67	0.81	
Visc @ 40°C	cSt	ASTM D445		62.6	60.5	





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