

JOHN DEERE 644 P 1DW644PATPLX19041

Component Hydraulic System

{not provided} (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

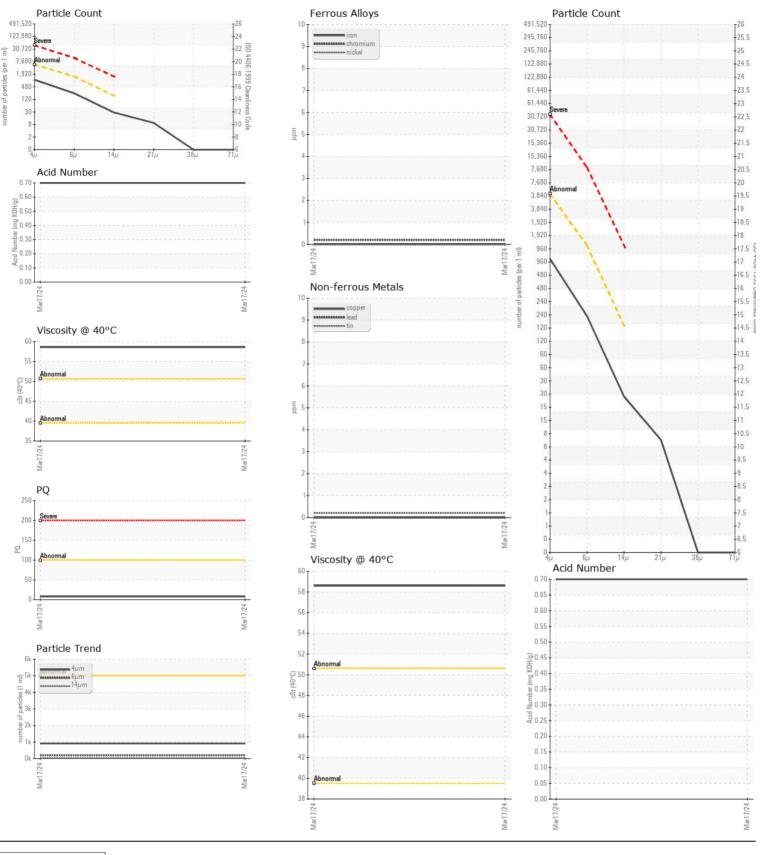
CONTAMINATION

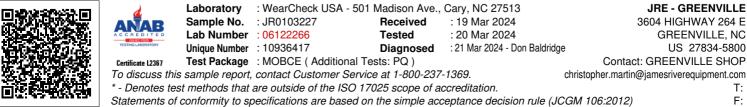
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0103227		
Sample Date		Client Info		17 Mar 2024		
Machine Age	hrs	Client Info		441		
Oil Age	hrs	Client Info		441		
Filter Age	hrs	Client Info		0		
Oil Changed		Client Info		Not Changd		
Filter Changed		Client Info		Not Changd		
Sample Status				NORMAL		
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PQ		ASTM D8184	00	8		
Iron	ppm	ASTM D5185m	>20	0		
Chromium	ppm	ASTM D5185m	>10	<1		
Nickel	ppm	ASTM D5185m	>10	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	10	0		
Aluminum	ppm	ASTM D5185m	>10	<1		
Lead	ppm	ASTM D5185m	>10	0		
Copper	ppm	ASTM D5185m	>75	0		
Tin	ppm	ASTM D5185m	>10	<1		
Vanadium	ppm	ASTM D5185m		0		
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Silicon	ppm	ASTM D5185m	>20	<1		
Potassium	ppm	ASTM D5185m	>20	1		
Water	ppm	WC Method	>0.1	NEG		
Particles >4µm		ASTM D7647	>5000	915		
Particles >6µm		ASTM D7647	>1300	205		
Particles >14µm		ASTM D7647	>160	25		
Particles >21µm		ASTM D7647	>40	8		
Particles >38µm		ASTM D7647	>10	0		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/15/12		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>0.1	NEG		
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Sodium	ppm	ASTM D5185m		0		
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m		0		
Calcium	ppm	ASTM D5185m		109		
Phosphorus	ppm	ASTM D5185m		629		
Zinc	ppm	ASTM D5185m		817		
Sulfur	ppm	ASTM D5185m		1868		
Acid Number (AN)	mg KOH/g	ASTM D8045		0.70		
Visc @ 40°C	cSt	ASTM D445		58.6		





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