

## WEAR NORMAL CONTAMINATION ABNORMAL FLUID CONDITION NORMAL



## JOHN DEERE 318D 1T0318DAKDG241161

Hydraulic System

{not provided} (--- GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

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Metal levels are typical for a new component breaking in.

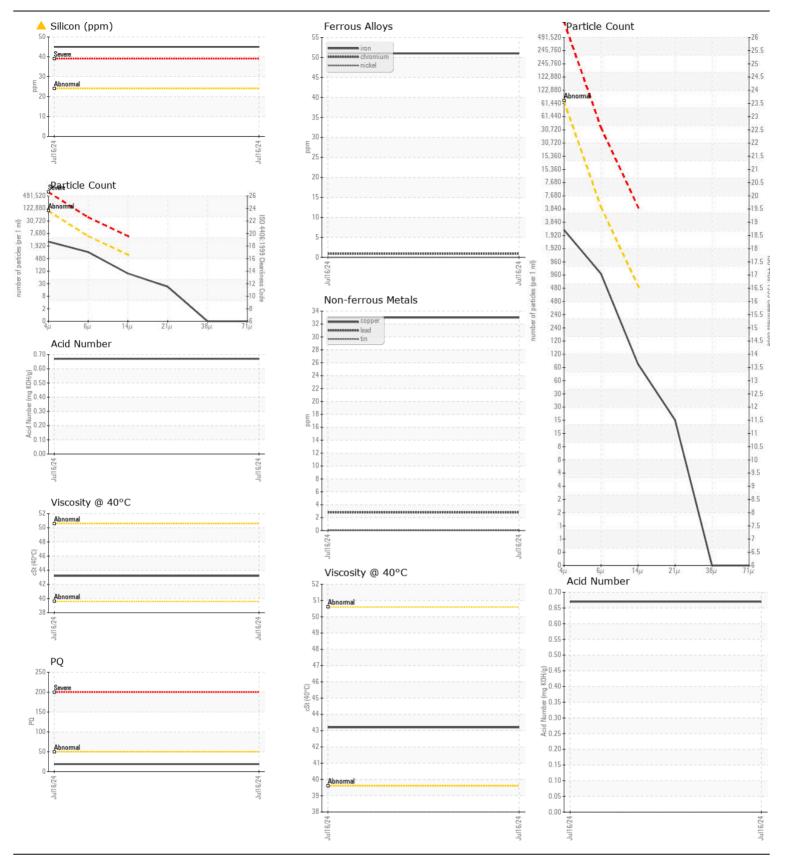
## CONTAMINATION

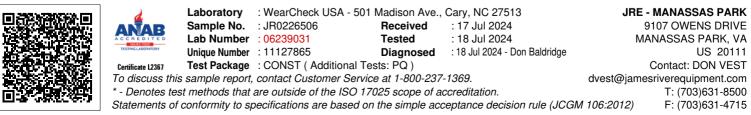
Elemental level of silicon (Si) above normal indicating ingress of seal material.

## FLUID CONDITION

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

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0226506		
Sample Date		Client Info		16 Jul 2024		
Machine Age	hrs	Client Info		2624		
Oil Age	hrs	Client Info		0		
Filter Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Filter Changed		Client Info		Changed		
Sample Status				ABNORMAL		
PQ		ASTM D8184	>50	19		
Iron	ppm	ASTM D5185m	>71	51		
Chromium	ppm	ASTM D5185m	>11	<1		
Nickel	ppm	ASTM D5185m	>6	0		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>11	6		
Lead	ppm	ASTM D5185m	>13	3		
Copper	ppm	ASTM D5185m	>21	33		
Tin	ppm	ASTM D5185m	>5	<1		
Vanadium	ppm	ASTM D5185m		0		
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Silicon	ppm	ASTM D5185m	>24	🔺 45		
Potassium	ppm	ASTM D5185m	>20	1		
Water		WC Method	>0.075	NEG		
Particles >4µm		ASTM D7647	>80000	2743		
Particles >6µm		ASTM D7647	>5000	870		
Particles >14µm		ASTM D7647	>640	82		
Particles >21µm		ASTM D7647	>160	19		
Particles >38µm		ASTM D7647	>40	0		
Particles >71µm		ASTM D7647	>10	0		
Oil Cleanliness		ISO 4406 (c)	>23/19/16	19/17/14		
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	>0.075	NEG		
Sodium	ppm	ASTM D5185m	>21	4		
Boron	ppm	ASTM D5185m		56		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		50		
Manganese	ppm	ASTM D5185m		1		
Magnesium	ppm	ASTM D5185m		264		
Calcium	ppm	ASTM D5185m		988		
Phosphorus	ppm	ASTM D5185m		693		
Zinc	ppm	ASTM D5185m		766		
Sulfur	ppm	ASTM D5185m		2682		
Acid Number (AN)	mg KOH/g	ASTM D8045		0.67		
Visc @ 40°C	cSt	ASTM D445		43.2		





Contact/Location: DON VEST - JAMMAN Page 2 of 2