

Machine Id SAKAI VSV16-54061 Component Hydraulic System Fluid JOHN DEERE ZINC-FREE HYDRAULIC OIL 46 (--- GAL)

RECOMMENDATION

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

WEAR	

All component wear rates are normal.

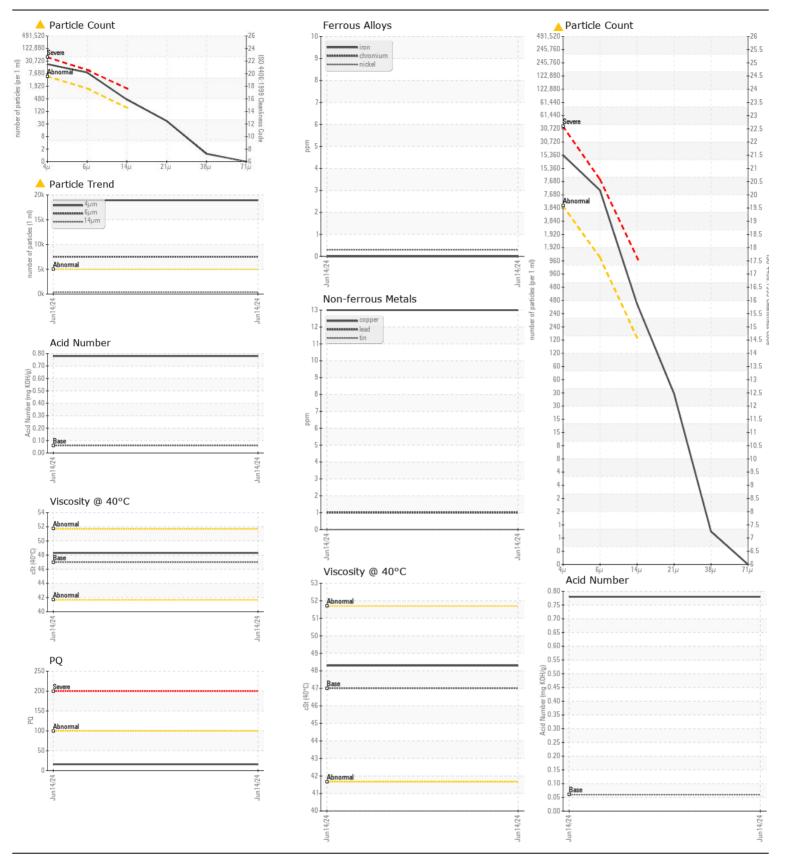
CONTAMINATION

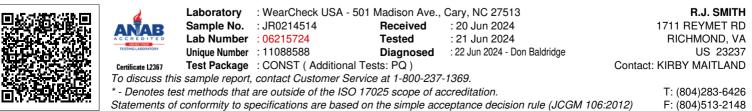
There is a high amount of particulates present in the oil.

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		JR0214514		
Sample Date		Client Info		14 Jun 2024		
Machine Age	hrs	Client Info		4541		
Oil Age	hrs	Client Info		0		
Filter Age	hrs	Client Info		0		
Oil Changed		Client Info		Not Changd		
Filter Changed		Client Info		Changed		
Sample Status				ABNORMAL		
PQ		ASTM D8184		16		
Iron	ppm	ASTM D5185m		0		
Chromium	ppm	ASTM D5185m	>10	0		
Nickel	ppm	ASTM D5185m	>10	<1		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>10	1		
Lead	ppm	ASTM D5185m	>10	1		
Copper	ppm	ASTM D5185m	>75	13		
Tin	ppm	ASTM D5185m	>10	0		
Vanadium	ppm	ASTM D5185m		0		
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Ciliara			00	F		
Silicon	ppm	ASTM D5185m	>20	5 4		
Potassium	ppm	ASTM D5185m		-		
Water		WC Method	>0.1	NEG		
Particles >4µm		ASTM D7647				
Particles >6µm		ASTM D7647	>1300	A 7525		
Particles >14µm		ASTM D7647		A 386		
Particles >21µm		ASTM D7647	>40	37		
Particles >38µm		ASTM D7647		1		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)		A 21/20/16		
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		
Sodium	ppm	ASTM D5185m		4		
Boron	ppm	ASTM D5185m		4		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		12		
Calcium	ppm	ASTM D5185m		1112		
Phosphorus	ppm	ASTM D5185m		730		
Zinc	ppm	ASTM D5185m		552		
Sulfur	ppm	ASTM D5185m		2020		
Acid Number (AN)	mg KOH/g	ASTM D8045	0.06	0.78		
Visc @ 40°C	cSt	ASTM D445	47	48.3		
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Contact/Location: KIRBY MAITLAND - RJSRIC Page 2 of 2