

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id E-183

Component Hydraulic System

JOHN DEERE ZINC-FREE HYDRAULIC OIL

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

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

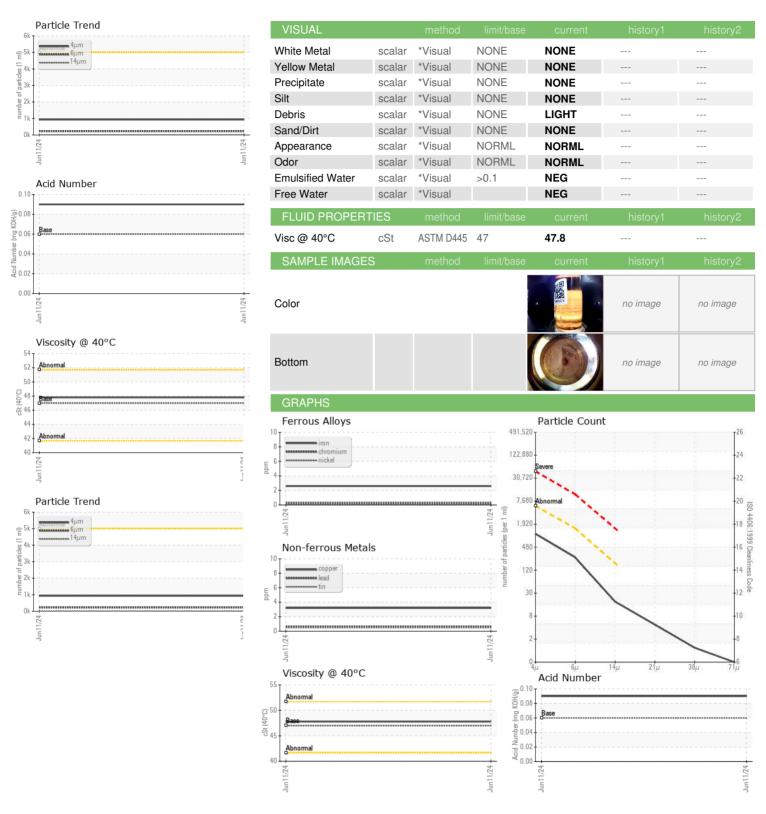
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

46 (GAL)						
<u> </u>	4471011			Jun 2024		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0900273		
Sample Date		Client Info		11 Jun 2024		
Machine Age	hrs	Client Info		438		
Oil Age	hrs	Client Info		438		
Oil Changed		Client Info		Not Changd		
Sample Status				NORMAL		
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	3		
Chromium	ppm	ASTM D5185m	>10	<1		
Nickel	ppm	ASTM D5185m	>10	<1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m		<1		
Aluminum	ppm	ASTM D5185m	>10	2		
Lead	ppm	ASTM D5185m	>10	<1		
Copper	ppm	ASTM D5185m	>75	3		
Tin	ppm	ASTM D5185m	>10	<1		
Vanadium	ppm	ASTM D5185m	7.0	0		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m		<1		
Molybdenum	ppm	ASTM D5185m		<1		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		1		
Calcium	ppm	ASTM D5185m		6		
Phosphorus	ppm	ASTM D5185m		527		
Zinc	ppm	ASTM D5185m		34		
Sulfur	ppm	ASTM D5185m		67		
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	3		
Sodium	ppm	ASTM D5185m		0		
Potassium	ppm	ASTM D5185m	>20	1		
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	933		
Particles >6µm		ASTM D7647	>1300	226		
Particles >14μm		ASTM D7647	>160	16		
Particles >21µm		ASTM D7647	>40	4		
Particles >38µm		ASTM D7647	>10	1		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/15/11		

Contact/Location: BRANDON BYRUM - DUKRAL



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No. Lab Number : 06213400 Unique Number : 11086264

: WC0900273 Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 18 Jun 2024 **Tested** : 19 Jun 2024 Diagnosed

: 20 Jun 2024 - Don Baldridge

US 27603 Contact: BRANDON BYRUM b.byrum@dukelazzara.com

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)

T:

F:

DUKE LAZZARA

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