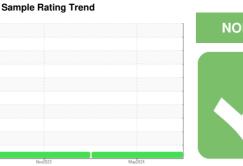


OIL ANALYSIS REPORT

DODT









JOHN DEERE 245P 1FF245PALNF000047 Component Hydraulic System

Fluid
HITACHI HYDRAULIC SUPER EX 46HN (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

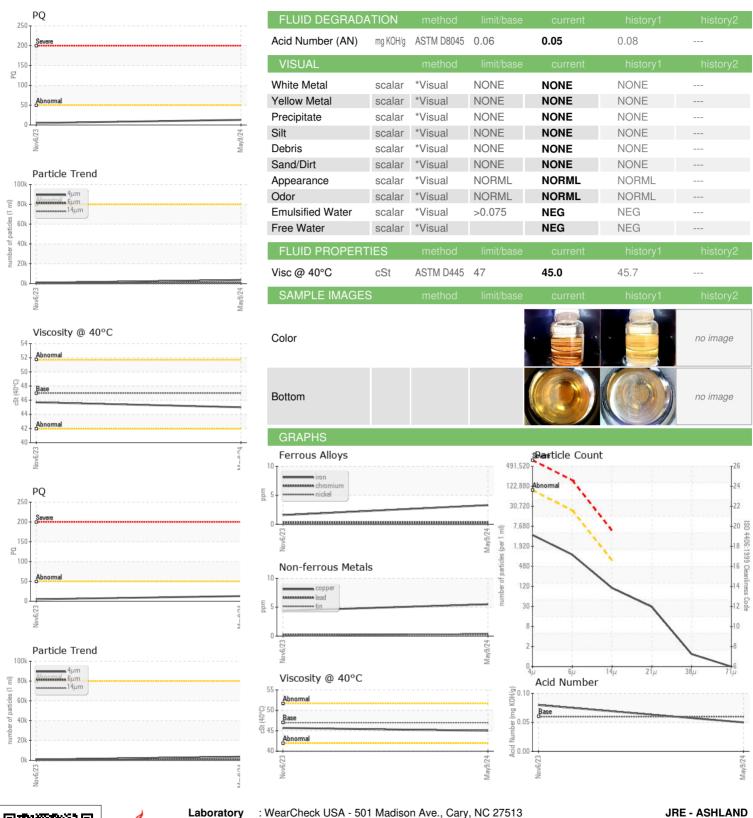
Fluid Condition

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

UPER EX 46HN (- GAL)		Nov2023	May2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		JR0212338	JR0179795	
Sample Date		Client Info		09 May 2024	06 Nov 2023	
Machine Age	hrs	Client Info		962	538	
Oil Age	hrs	Client Info		962	538	
Oil Changed		Client Info		Not Changd	Not Changd	
Sample Status				NORMAL	NORMAL	
CONTAMINATION	V	method	limit/base	current	history1	history2
Water		WC Method	>0.075	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>50	13	5	
Iron	ppm	ASTM D5185m	>32	3	2	
Chromium	ppm	ASTM D5185m	>9	<1	<1	
Nickel	ppm	ASTM D5185m	>5	0	0	
Titanium	ppm	ASTM D5185m		<1	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>9	2	2	
Lead	ppm	ASTM D5185m	>28	<1	<1	
Copper	ppm	ASTM D5185m	>50	6	4	
Tin	ppm	ASTM D5185m	>5	<1	0	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		<1	0	
Manganese	ppm	ASTM D5185m		0	0	
Magnesium	ppm	ASTM D5185m		3	<1	
Calcium	ppm	ASTM D5185m		13	8	
Phosphorus	ppm	ASTM D5185m	827	573	537	
Zinc	ppm	ASTM D5185m	0	59	40	
Sulfur	ppm	ASTM D5185m	13	178	168	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>11	2	2	
Sodium	ppm	ASTM D5185m	>21	0	0	
Potassium	ppm	ASTM D5185m	>20	2	2	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>80000	3691	755	
Particles >6µm		ASTM D7647	>20000	945	155	
Particles >14μm		ASTM D7647	>640	95	17	
Particles >21µm		ASTM D7647	>160	26	5	
Particles >38μm		ASTM D7647	>40	1	0	
Particles >71μm		ASTM D7647	>10	0	0	
Oil Cleanliness		ISO 4406 (c)	>23/21/16	19/17/14	17/14/11	



OIL ANALYSIS REPORT





Certificate 12367

Laboratory Sample No.

: JR0212338 Lab Number : 06175358 Unique Number : 11021411

Received : 10 May 2024 **Tested** Diagnosed

: 15 May 2024 : 15 May 2024 - Don Baldridge

Test Package : CONST (Additional Tests: PQ) To discuss this sample report, contact Customer Service at 1-800-237-1369.

 st - 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)

JRE - ASHLAND

11047 LEADBETTER RD ASHLAND, VA US 23005

Contact: DAVID ZIEG dzieg@jamesriverequipment.com

T: (804)798-6001 F: (804)798-0292

Contact/Location: DAVID ZIEG - JAMASH