

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

JOHN DEERE 790E FF790EL010346

Hydraulic System

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.

GAL)				Jan2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RH0001999		
Sample Date		Client Info		11 Jan 2024		
Machine Age	hrs	Client Info		19201		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.075	NEG		
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>50	13		
Iron	ppm	ASTM D5185m	>32	0		
Chromium	ppm	ASTM D5185m	>9	0		
Nickel	ppm	ASTM D5185m	>5	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>9	0		
Lead	ppm	ASTM D5185m	>28	0		
Copper	ppm	ASTM D5185m	>50	0		
Tin	ppm	ASTM D5185m	>5	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
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		14		
Phosphorus	ppm	ASTM D5185m	827	668		
Zinc	ppm	ASTM D5185m	0	3		
Sulfur	ppm	ASTM D5185m	13	26		
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>11	2		
Sodium	ppm	ASTM D5185m	>21	0		
Potassium	ppm	ASTM D5185m	>20	0		
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>80000	2934		
Particles >6µm		ASTM D7647	>20000	417		
Particles >14µm		ASTM D7647	>640	30		
Particles >21µm		ASTM D7647	>160	7		
Particles >38µm		ASTM D7647	>40	0		
Particles >71µm		ASTM D7647	>10	0		
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ISO 4406 (c) >23/21/16

19/16/12

Oil Cleanliness



20

150

50

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100

60

0

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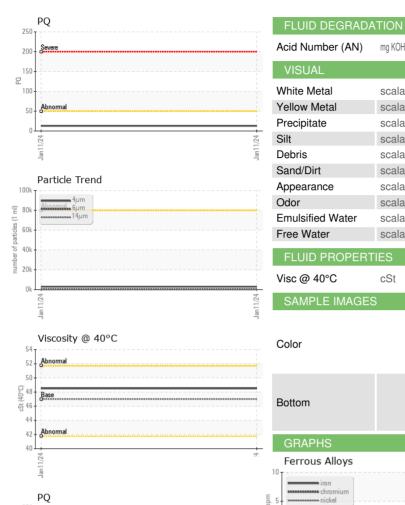
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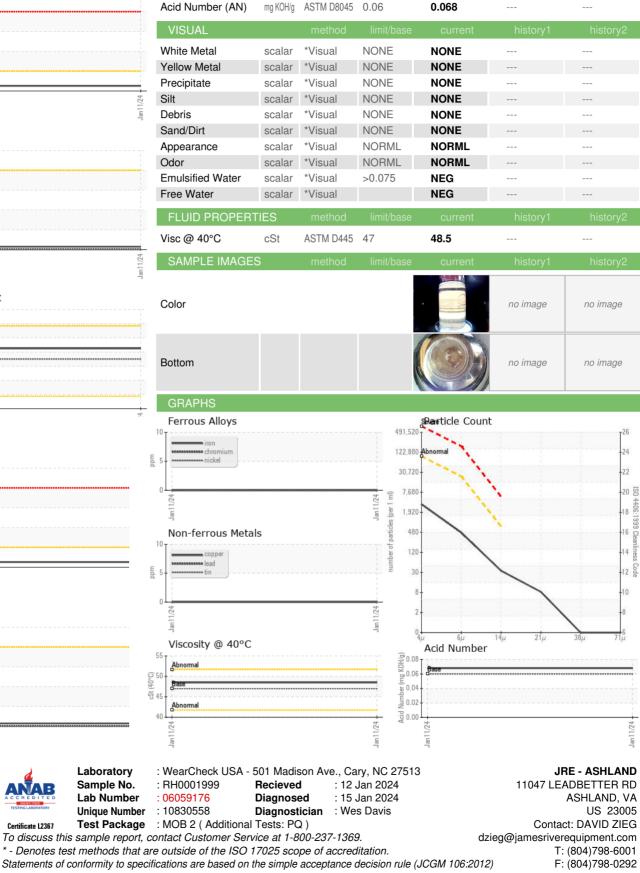
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Particle Trend

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Certificate L2367

Contact/Location: DAVID ZIEG - JAMASH