

RECOMMENDATION

Recommend drain oil if not already done. Reduce drain interval to 2000 hours or drain and flush and use recommended zinc free oil.

PROBLEMATIC TEST RESULTS						
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Zinc	ppm	ASTM D5185m	0	<u> </u>	1 38	70

Customer Id: SECVAR Sample No.: LEC0040241 Lab Number: 06015713 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDE	IENDED ACTIONS					
Action	Status	Date	Done By	Description		
Change Fluid			?	Recommend drain oil if not already done. Reduce drain interval to 2000 hours or drain and flush and use recommended zinc free oil.		
Flush System			?	Recommend drain oil if not already done. Reduce drain interval to 2000 hours or drain and flush and use recommended zinc free oil.		

HISTORICAL DIAGNOSIS



29 Oct 2020 Diag: Don Baldridge

Recommend drain oil if not already done. Reduce drain interval to 2000 hours or drain and flush and use recommended zinc free oil. The iron level is abnormal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. Zinc level above manufacturer's recommendations. The AN level is acceptable for this fluid.



16 Jun 2014 Diag: Doug Bogart



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.All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oils additive package is suitable for further service.

13 Jan 2014 Diag: Don Baldridge





Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



view report







OIL ANALYSIS REPORT

Area **Store 5 - Cross Lanes** JOHN DEERE Z-185 Component

Hydraulic System

HITACHI HYDRAULIC SUPER EX 46HN (36 GAL)

DIAGNOSIS

Recommendation

Recommend drain oil if not already done. Reduce drain interval to 2000 hours or drain and flush and use recommended zinc free oil.

Wear

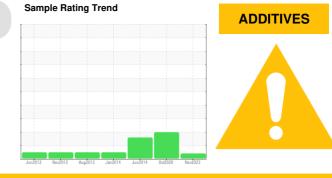
All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Fluid Condition

Zinc level above manufacturer's recommendations. The AN level is acceptable for this fluid.



SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		LEC0040241	LECP178215	LECP140953
Sample Date		Client Info		18 Nov 2023	29 Oct 2020	16 Jun 2014
Machine Age	hrs	Client Info		9112	7808	2651
Oil Age	hrs	Client Info		0	0	2651
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.075	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>50	13	21	12.0
Iron	ppm	ASTM D5185m	>32	19	<u> </u>	6
Chromium	ppm	ASTM D5185m	>9	1	6	<1
Nickel	ppm	ASTM D5185m	>5	0	0	<1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>9	<1	4	<1
Lead	ppm	ASTM D5185m	>28	0	0	0
Copper	ppm	ASTM D5185m	>50	7	8	10
Tin	ppm	ASTM D5185m	>5	0	0	2
Antimony	ppm	ASTM D5185m			0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		4	4	<1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		2	2	0
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		4	4	0
Calcium	ppm	ASTM D5185m		269	124	17
Phosphorus	ppm	ASTM D5185m	827	410	331	430
Zinc	ppm	ASTM D5185m	0	<u> </u>	1 38	70
Sulfur	ppm	ASTM D5185m	13	1413	871	556
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>11	4	6	4
Sodium	ppm	ASTM D5185m	>21	<1	<1	<1
Potassium	ppm	ASTM D5185m	>20	0	1	1
FLUID CLEANLINE	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>80000	46485	🔺 119488	8831
Particles >6µm		ASTM D7647	>20000	5307	1 4858	4 811
Particles >14µm		ASTM D7647	>640	69	53	A 819
Particles >21µm		ASTM D7647	>160	11	6	2 76
Particles >38µm		ASTM D7647	>40	0	0	42
Particles >71µm		ASTM D7647	>10	0	0	4

ISO 4406 (c) >23/21/16

23/20/13

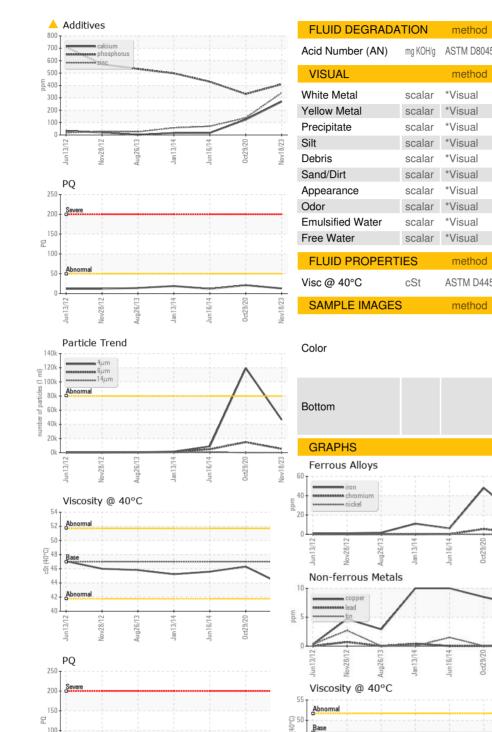
Oil Cleanliness

24/21/13

▲ 20/19/17

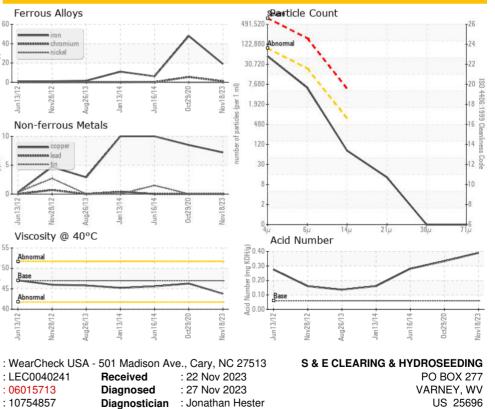


OIL ANALYSIS REPORT



FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.06	0.39	0.333	0.281
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.075	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	47	43.8	46.3	45.59
SAMPLE IMAGES	6	method	limit/base	current	history1	history2

no image no image



: 10754857 Test Package : CONST (Additional Tests: PQ) Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

:06015713

₹3 45

Laboratory

Sample No.

Lab Number

Unique Number

40

Jun 13/12

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Vov28/12

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact: RANDALL

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