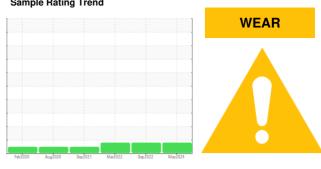


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id **JOHN DEERE 310E 1DW310EXTKF697898 Rear Differential** JOHN DEERE HY-GARD HYD/TRANS (--- GAL)



DIAGNOSIS

Recommendation

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

🔺 Wear

Bearing and/or bushing wear is indicated.

Contamination

There is no indication of any contamination in the oil.

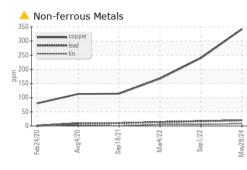
Fluid Condition

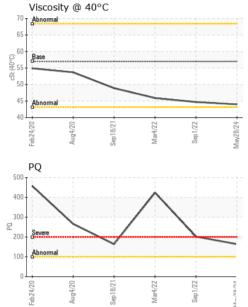
The condition of the oil is acceptable for the time in service.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		JR0211654	JR0135954	JR0110276
Sample Date		Client Info		28 May 2024	01 Sep 2022	04 Mar 2022
Machine Age	hrs	Client Info		4359	3515	2957
Oil Age	hrs	Client Info		4359	1468	910
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINATION	N	method	limit/base	current	history1	history2
Water		WC Method	>.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		164	202	424
Iron	ppm	ASTM D5185m	>500	545	383	301
Chromium	ppm	ASTM D5185m	>10	2	2	1
Nickel	ppm	ASTM D5185m	>10	2	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	<1	<1
Aluminum	ppm	ASTM D5185m	>25	1	2	2
Lead	ppm	ASTM D5185m	>25	20	17	14
Copper	ppm	ASTM D5185m	>100	A 342	<u> </u>	1 67
Tin	ppm	ASTM D5185m	>10	8	5	5
Antimony	ppm	ASTM D5185m	>5			
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	6	61	57	55
Barium	ppm	ASTM D5185m	0	3	0	0
Molybdenum	ppm	ASTM D5185m	0	2	2	2
Manganese	ppm	ASTM D5185m		11	8	7
Magnesium	ppm	ASTM D5185m	145	59	54	60
Calcium	ppm	ASTM D5185m	3570	3350	3363	3389
Phosphorus	ppm	ASTM D5185m	1290	1171	1063	1055
Zinc	ppm	ASTM D5185m	1640	1354	1315	1260
Sulfur	ppm	ASTM D5185m		3700	3231	2760
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	15	13	12
Sodium	ppm	ASTM D5185m		3	2	0
Potassium	ppm	ASTM D5185m	>20	2	2	0



OIL ANALYSIS REPORT





			method	limit/base	current	history1	history2
Wh	nite Metal	scalar	*Visual	NONE	NONE	MODER	MODER
Yel	llow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Pre	ecipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	:	scalar	*Visual	NONE	NONE	NONE	NONE
Deb	bris	scalar	*Visual	NONE	NONE	NONE	NONE
Sar	nd/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
App	pearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odd	or	scalar	*Visual	NORML	NORML	NORML	NORML
Em	ulsified Water	scalar	*Visual	>.2	NEG	NEG	NEG
Fre	e Water	scalar	*Visual		NEG	NEG	NEG
FI	LUID PROPERTI	IES	method	limit/base	current	history1	history
Vise	c @ 40°C	cSt	ASTM D445	57.0	44.0	44.7	45.9
S	AMPLE IMAGES	;	method	limit/base	current	history1	history
				Γ			
Col	lor				no image	no image	no image
Bot	ttom				no image	no image	no image
G	RAPHS						
400 400 0 0 0 0 0 0 0 0 0 0 0 0	errous Alloys		sep 1/22	0	Severe	518/21 art/22	p01/22
Fe 600 400 0 00/HZPH 400 0 00/HZPH 400	errous Alloys			450 400 350 402 300 250 200 150 100 50	Severe Abnormal	Sep 18/21	Sep 1/22
Fe 600 400 200 00/b7qs 400 00/b7qs 100 100 100 100 100 100 100 10	errous Alloys	5 		450 400 350 402 200 € 250 200 150 100 50	Severe Abnormal	Sep18/21	Sep 1/22
Fe 600 400 200 000/HZ9H 200 100 100 100 100 100 100 100	errous Alloys	5 		450 400 350 402 200 € 250 200 150 100 50	Severe Abnormal	Sep18/21	Sep1/22
Fe 600 400 00,16209 100 100 100 100 100 100 100 1	errous Alloys	5 		450 400 350 402 200 € 250 200 150 100 50	Severe Abnormal	Sep 18/21	Sep 1/22
Fe 600 400 0 00 V7000 400 0 00 V7000 100 100 100 100 100 100 100	errous Alloys	5 		450 400 350 402 200 € 250 200 150 100 50	Severe Abnormal	Sep 16/21	Sep1/22
Fe 600 400 0 00770749 100 100 0 00770749 100 100 100 100 100 100 100 10	errous Alloys	5 		450 400 350 402 200 € 250 200 150 100 50	Severe Abnormal	Sep 16/21	Sep1/22
Fe 600 400 200 0 0/FZey N 400 100 0 0/FZey N 400 100 100 100 100 100 100 100	errous Alloys	5 		450 400 350 402 200 € 250 200 150 100 50	Severe Abnormal	Sep18/21 Mar4/22	Sep1/22



Unique Number : 11056833 Diagnosed : 31 May 2024 - Don Baldridge Test Package : CONST (Additional Tests: PQ) Certificate 12367 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)

US 23005 Contact: DAVID ZIEG dzieg@jamesriverequipment.com T: (804)798-6001 F: (804)798-0292

Report Id: JAMASH [WUSCAR] 06194710 (Generated: 06/03/2024 06:58:50) Rev: 1

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